

FINAL REPORT

HAZARDOUS MINE OPENING PROJECT 26

MONT A/E 89-46-106

Alhambra, Clancy, Colorado, McClellan
and Montana City Mining Districts, Jefferson County
and
Blue Cloud, Helena and Scratchgravel Mining Districts
Lewis & Clark County
Western Montana

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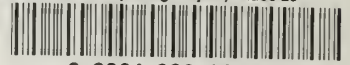
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FINAL REPORT

**HAZARDOUS MINE OPENING PROJECT; PHASE 25, PROJECT 26
MONT A/E 89-46-106**

**Alhambra, Clancy, Colorado, McClellan and Montana City Mining Districts,
Jefferson County**

and

**Blue Cloud, Helena and Scratchgravel Mining Districts,
Lewis & Clark County, MT**

Prepared for:

**Department of State Lands
Abandoned Mine Bureau**

Prepared by:

**Chen-Northern, Inc.
1610 B Street
Helena, MT 59604**



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TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION	1
1.1 Site Description	1
1.2 Site Locations	1
1.3 Project Objectives	1
1.4 Mining District Histories	4
2.0 RESPONSIBLE PARTIES	6
3.0 CHRONOLOGICAL LISTING OF EVENTS	7
3.1 Prebid Conference	7
3.2 Project Bids	7
3.3 Project Chronology	7
4.0 PROJECT CONSTRUCTION	9
4.1 Description of Project Plan	9
4.2 Contractor's Operation	9
4.3 Project Change Orders	12
4.4 Construction Activities/Quantities Used	13
5.0 PROJECT COSTS	14
5.1 Payment Requests	14
5.2 Cost Per District/Mine Opening	14
5.3 Professional Service Fees	15
6.0 PROJECT SUMMARY	17
6.1 Project Summary	17
6.2 Site Conditions After Completion	18
6.3 Monitoring	18
6.4 Maintenance	19
7.0 SLIDES	20

LIST OF TABLES

Table 1-1	Hazardous Mine Opening Project 26 Site Locations	2
Table 4-1	Key Receipt Acknowledgement Status	10
Table 4-2	Change Order Summary	13
Table 5-1	Payment Request Summary	14
Table 5-2	Cost Per District	15
Table 5-3	Analysis of Professional Service Fees Hazardous Mine Opening Project 26	16
Table 6-1	Reclamation Closures Specified vs. Constructed	17
Table 6-2	Maintenance Sites	19

LIST OF APPENDICES

APPENDIX A	VICINITY AND HAZARDS MAPS
APPENDIX B	BID TABULATIONS
APPENDIX C	KEY RECEIPT ACKNOWLEDGEMENTS
APPENDIX D	CHANGE ORDERS AND WORK DIRECTIVES
APPENDIX E	APPROVED PAYMENT REQUESTS, CERTIFICATE OF SUBSTANTIAL COMPLETION, AND AFFIDAVIT ON BEHALF OF CONTRACTOR
APPENDIX F	QUANTITIES AND COSTS
APPENDIX G	SLIDES AND SLIDE LOG

1.0 INTRODUCTION

Hard rock mining has taken place in Montana since 1862 and was essentially unregulated from a reclamation standpoint for over one hundred years. This resulted in thousands of unprotected shafts and adits in mining districts across the state. The hazards associated with these mine openings are many and range from bad air to falling and cave-ins.

1.1 SITE DESCRIPTION

The sites included in Hazardous Mine Opening Project; Phase 25, Project 26 (HMO Project 26) are located in or near residential areas, historic sites, close to public roads or in recreation areas. All mine openings threatened public safety. The shafts involved were deep enough to prevent unaided escape upon entry. Adits were accessible to the curious, exposing dangerous underground workings and unsuspected dangers.

1.2 SITE LOCATIONS

This project included approximately 240 openings at 97 sites located in the Alhambra, Clancy, Colorado, McClellan and Montana City mining districts of Jefferson County and the Blue Cloud, Helena, and Scratchgravel mining districts of Lewis & Clark County, MT. Change order work accomplished six additional closures at five sites in the Blue Eyed Nellie, Georgetown and Silver Lake mining districts of Deer Lodge County. Legal descriptions of all sites constructed are listed in Table 1-1. Site locations are shown on the vicinity and hazard maps contained in Appendix A.

1.3 PROJECT OBJECTIVES

HMO Project 26 was designed and executed with the intent of eliminating accidental or unauthorized entry to mine openings that exposed unknown hazards at a number of abandoned hard rock mines in Jefferson and Lewis & Clark Counties, Montana. Backfilling was the preferred reclamation option for closing hazardous adits and shafts but alternative methods (eg. grates, culverts, fencing) were utilized at the owner's request to preserve access.

TABLE 1-1
HAZARDOUS MINE OPENING PROJECT 26
SITE LOCATIONS

PA #	COUNTY	MINING DISTRICT	SITE NAME	LEGAL DESCRIPTION
----	-----	-----	-----	-----
12-078	Deer Lodge	Blue Eyed Nellie	Bonita	T05N R12W S14 NW NE
12-077	Deer Lodge	Blue Eyed Nellie	Boomerang	T05N R12W S14 NE NE
12-053	Deer Lodge	Georgetown	Bob Evans	T05N R13W S04 NE NW
12-005	Deer Lodge	Georgetown	Twilight	T05N R13W S04 NW NE
12-015	Deer Lodge	Silver Lake	Daly Gulch	T05N R13W S16 NW SW
22-049	Jefferson	Alhambra	Alhambra Hot Springs	T08N R03W S16 NW NE
22-265	Jefferson	Alhambra	Argonaut	T08N R03W S11 SW SW
22-263	Jefferson	Alhambra	B & G	T08N R02W S31 NW NE
22-260	Jefferson	Alhambra	Eagles Nest	T08N R02W S31 NE NE
22-052	Jefferson	Alhambra	Katy	T08N R02W S17 NE NW
22-051	Jefferson	Alhambra	Maupin Creek	T08N R02W S17 SW NE
22-269	Jefferson	Alhambra	NE NE Section 18	T08N R02W S18 NE NE
22-248	Jefferson	Alhambra	NW SW Section 24	T08N R03W S24 NW SW
22-247	Jefferson	Alhambra	Wall 2	T08N R03W S09 SW SE
22-057	Jefferson	Alhambra	Willard Creek	T08N R02W S20 NE NW
22-311	Jefferson	Clancy	Champion	T09N R03W S33 NW SE
22-303	Jefferson	Clancy	Delanie	T08N R05W S36 SE SW
22-243	Jefferson	Clancy	Frohner	T08N R05W S15 NW SE
22-245	Jefferson	Clancy	General Grant	T08N R05W S15 NE SE
22-093	Jefferson	Clancy	Monitor	T09N R04W S19 SE SE
22-225	Jefferson	Clancy	O.K.	T08N R03W S06 NW NW
22-285	Jefferson	Clancy	Roosevelt	T09N R03W S31 NW NE
22-227	Jefferson	Clancy	SE NW Section 30	T08N R04W S30 SE NW
22-330	Jefferson	Clancy	SW SE Section 32	T09N R03W S32 SE SW
22-226	Jefferson	Clancy	SW SW Section 23	T08N R05W S23 SW SW
22-228	Jefferson	Clancy	Sterling Price	T09N R03W S29 NE NW
22-224	Jefferson	Clancy	Superior/Jubilee	T08N R03W S06 SW NW
22-294	Jefferson	Colorado	Atlanta	T07N R05W S02 NW NW
22-367	Jefferson	Colorado	Black Jack	T07N R04W S03 SW NW
22-254	Jefferson	Colorado	Bluestone	T07N R04W S18 SE SW
22-289	Jefferson	Colorado	Bunker Hill	T07N R04W S21 NE SE
22-302	Jefferson	Colorado	Copper Gulch	T07N R04W S24 SW NW
22-287	Jefferson	Colorado	Lake	T07N R04W S14 NW SW
22-252	Jefferson	Colorado	Minnesota	T07N R04W S05 SE NE
22-253	Jefferson	Colorado	NE NE Section 13	T07N R05W S13 NE NE
22-258	Jefferson	Colorado	NE NE Section 29	T07N R04W S29 NE NE
22-251	Jefferson	Colorado	Rarus	T07N R04W S03 NE NE
22-256	Jefferson	Colorado	SE NW Section 22	T07N R04W S22 SE NW
22-288	Jefferson	Colorado	SW SW Section 22	T07N R04W S22 SW SW
22-105	Jefferson	Colorado	Salvail	T07N R04W S19 NE NE
22-257	Jefferson	Colorado	Tamarack Junior	T07N R04W S23 SE NW
22-310	Jefferson	Colorado	Vandalia	T07N R05W S02 NE SE
22-266	Jefferson	McClellan	Crystal Creek	T08N R02W S03 NE NW
22-259	Jefferson	McClellan	Doig	T09N R02W S16 SE SE
22-222	Jefferson	McClellan	NW SE Section 9	T08N R02W S09 NW SE
22-034	Jefferson	Montana City	Faith/Hope	T09N R03W S09 SE SE
22-223	Jefferson	Montana City	Grant	T09N R03W S22 NW NW
22-270	Jefferson	Montana City	NW NW Section 17	T09N R03W S17 NW NW
25-124	Lewis & Clark	Blue Cloud	Bulls Head	T10N R05W S13 NW NW
25-354	Lewis & Clark	Blue Cloud	Consolidated (Looby)	T10N R04W S17 NE NE
25-356	Lewis & Clark	Blue Cloud	Good Faith (Looby)	T10N R04W S16 NW SW
25-146	Lewis & Clark	Blue Cloud	Grunenfelder	T10N R04W S31 NE NW

TABLE 1-1
HAZARDOUS MINE OPENING PROJECT 26
SITE LOCATIONS

PA #	COUNTY	MINING DISTRICT	SITE NAME	LEGAL DESCRIPTION
----	-----	-----	-----	-----
25-345	Lewis & Clark	Blue Cloud	Looby	T10N R04W S16 W NW
25-123	Lewis & Clark	Blue Cloud	NE NE Section 25	T10N R05W S25 NE NE
25-143	Lewis & Clark	Blue Cloud	NW SE Section 18	T10N R04W S18 NW SE
25-144	Lewis & Clark	Blue Cloud	SE NW Section 18	T10N R04W S18 SE NW
25-032	Lewis & Clark	Blue Cloud	Silver Coin	T10N R04W S20 SW NW
25-141	Lewis & Clark	Blue Cloud	Silver Coin North	T10N R04W S17 SW SW
25-309	Lewis & Clark	Blue Cloud	Smallwood	T10N R04W S28 NE NW
25-148	Lewis & Clark	Blue Cloud	Stemwinder	T10N R04W S17 SW NW
25-355	Lewis & Clark	Blue Cloud	True Friend (Looby)	T10N R04W S17 SE NE
25-039	Lewis & Clark	Helena	Arrastra Gulch	T09N R04W S11 SW NE
25-342	Lewis & Clark	Helena	Bluebird	T09N R04W S11 SW NW
25-336	Lewis & Clark	Helena	Crane	T09N R04W S10 NE SW
25-069	Lewis & Clark	Helena	Daylight	T09N R04W S10 SE NW
25-002	Lewis & Clark	Helena	Glory Hole	T09N R04W S10 NW NW
25-156	Lewis & Clark	Helena	Golden	T09N R04W S10 NE SE
25-071	Lewis & Clark	Helena	Howard	T10N R04W S35 SW SE
25-333	Lewis & Clark	Helena	NE NE Section 9	T09N R04W S09 NE NE
25-337	Lewis & Clark	Helena	NE NW Section 11	T09N R04W S11 NE NW
25-189	Lewis & Clark	Helena	NE NW Section 12	T09N R04W S12 NE NW
25-151	Lewis & Clark	Helena	NE SE Section 8	T09N R04W S08 NE SE
25-190	Lewis & Clark	Helena	NE SW Section 36	T10N R04W S36 NE NW
25-152	Lewis & Clark	Helena	NW SW Section 4	T09N R04W S04 NW SW
25-154	Lewis & Clark	Helena	None Such/Jumbo	T09N R04W S12 SW NW
25-331	Lewis & Clark	Helena	Oro Y Plata	T09N R04W S10 NE NE
25-065	Lewis & Clark	Helena	Park City	T09N R04W S16 SE NW
25-150	Lewis & Clark	Helena	SE SW Section 9	T09N R04W S09 SE SW
25-157	Lewis & Clark	Helena	SW NW Section 11	T09N R04W S11 SW NW
25-131	Lewis & Clark	Helena	SW SE Section 12	T09N R04W S12 SW SE
25-335	Lewis & Clark	Helena	SW SW Section 11	T09N R04W S11 SW SW
25-068	Lewis & Clark	Helena	Squaw Gulch	T09N R04W S02 NE
25-155	Lewis & Clark	Helena	Twilight	T09N R04W S10 NE SE
25-217	Lewis & Clark	Scratchgravel	Ariadene	T11N R04W S36 NW SW
25-351	Lewis & Clark	Scratchgravel	Babcock	T10N R04W S02 NE SE
25-158	Lewis & Clark	Scratchgravel	Carbonate	T11N R04W S36 NE SW
25-021	Lewis & Clark	Scratchgravel	Eagle	T11N R04W S33 SE SE
25-339	Lewis & Clark	Scratchgravel	Franklin	T10N R04W S11 SE NW
25-191	Lewis & Clark	Scratchgravel	Green Bird	T11N R04W S19 NE NE
25-194	Lewis & Clark	Scratchgravel	Independent	T11N R04W S35 SE NW
25-352	Lewis & Clark	Scratchgravel	Lovely	T11N R04W S35 NW SE
25-327	Lewis & Clark	Scratchgravel	NE NW Section 35	T11N R04W S35 NE NW
25-329	Lewis & Clark	Scratchgravel	NE SW Section 26	T11N R04W S26 NE SW
25-161	Lewis & Clark	Scratchgravel	NE SW Section 36	T11N R04W S36 NE SW
25-165	Lewis & Clark	Scratchgravel	NW SW Section 25	T11N R04W S25 NW SW
25-343	Lewis & Clark	Scratchgravel	Pearson	T10N R04W S01 NW SW
25-328	Lewis & Clark	Scratchgravel	SE NE Section 2	T10N R04W S02 SE NE
25-218	Lewis & Clark	Scratchgravel	SE NE Section 35	T11N R04W S35 SE NE
25-195	Lewis & Clark	Scratchgravel	SE SE Section 35	T11N R04W S35 SE SE
25-192	Lewis & Clark	Scratchgravel	SE SW Section 34	T11N R04W S34 SE SW
25-330	Lewis & Clark	Scratchgravel	Silver Fork	T11N R04W S34 NE NW
25-159	Lewis & Clark	Scratchgravel	Sunshine	T10N R04W S02 NW SE
25-162	Lewis & Clark	Scratchgravel	Swan	T11N R04W S35 SW NW
25-160	Lewis & Clark	Scratchgravel	Tavo	T11N R04W S36 NE SW

1.4 MINING DISTRICT HISTORY

ALHAMBRA - The Alhambra district is 10 miles southeast of Helena, west of the Prickly Pear valley. The district encompasses an area drained by Warm Springs Creek and its tributaries. Small scale prospecting and placer mining began in the 1850's, but intensive prospecting did not follow until 1864. By 1875 the placers in the district were largely exhausted. Between 1902 and 1957 district mines produced 80,380 tons of ore that yielded \$697,163 worth of gold, silver, copper, lead, and zinc.

CLANCY - The Clancy district embraces that part of Jefferson County tributary to Lump Gulch and Clancy Creek. Gold was discovered in Prickly Pear Creek in 1862. By 1890 most of the mines in the area were being developed for their rich silver ores. Coincident with the World War I rise in price of metals, production from the Clancy district rose from \$5,020 in 1915 to \$218,574 in 1920, when the price of silver was established at one dollar an ounce, but it gradually declined to about \$3,000 in 1929. Since 1930 almost no lode mining has been done in the district. Placer gold deposits on Clancy and Prickly Pear Creeks were dredged between 1933 and 1947.

COLORADO - The Colorado district is 20 miles south of Helena and embraces the Spring Creek drainage and extends southward from Quartz Creek and the headwaters of Clancy Creek. Within the district are the settlements of Wickes, Corbin, and Jefferson City. The second smelter in the Montana Territory was built in the district in 1867 at the Gregory Mine with a second smelter built at the Alta Mine. Both these smelters were not successful at treating the ores from the district due to metallurgical difficulties. A short time later two other smelters were built in the vicinity of Wickes which processed ore from as far away as Coeur D'alene, Idaho until 1893 when smelting operations were transferred to East Helena. The years from 1883 to 1893 were the heyday for the mines of the region. Recorded production from the entire district since 1900 is valued at \$5,850,470.

MCCLELLAN - The McClellan district lies in the northeastern corner of Jefferson County. The area is drained by the northward flowing McClellan and Mitchell Creeks. The area has yielded gold from both placers and deep mines. Production figures during the years 1902 through 1957 are valued at over \$127,000.

MONTANA CITY - The Montana City district embraces that part of Jefferson County drained by Clark and Holmes Gulch. The heart of the district lies approximately 3 miles southeast of East Helena. Production from the lode mines of the district which include silver-lead and gold-silver ores are estimated at just under \$7,000 between 1902 and 1957.

BLUE CLOUD - The Blue Cloud district, also known as Grass Valley, is a short distance northwest of Fort Harrison on the western edge of Helena. Mines in the district including the Silver Coin and Looby, have produced a considerable amount of rich silver ore.

HELENA - Placer gold was discovered in 1864 in Last Chance Gulch, at the present site of Helena. In the fall of that year the first discovery of lode gold in the region was made in the vicinity of Unionville. The total production of the Helena district for the period 1901 through 1958 is estimated at \$6,724,000; with \$3,943,000 coming from placers and the remainder from lode mines. It is stated that about \$16,000,000 was recovered before 1910, with the bulk of production from the period prior to 1868.

SCRATCHGRAVEL - The Scratchgravel Hills stand out prominently in the western part of the Prickly Pear Valley, two miles north of Helena. Placer mining is said to have begun here shortly before gold was discovered in Last Chance Gulch in 1864. The Scratchgravel deposits were not large and their mining was intermittent and on a moderate scale. Quartz lodes were located and some rich ores, valuable mostly for silver and lead were mined. The amount of gold produced is not known.

2.0 RESPONSIBLE PARTIES

The following people/firms have contributed to the coordination, design, execution, and inspection of HMO Project 26:

♦	PROJECT COORDINATION & DESIGN	Chen-Northern, Inc. 1610 B Street P.O. Box 4699 Helena, MT 59604
♦	ENGINEERING PLAN PREPARATION	Chen-Northern, Inc. 1610 B Street P.O. Box 4699 Helena, MT 59604
♦	CONTRACTOR	Scott Construction P.O. Box 777 East Helena, MT 59635
♦	QUALITY CONTROL INSPECTION	Chen-Northern, Inc. Josh Stewart, Project Inspector Scott Colvin, Project Inspector
♦	AMRB COORDINATION	Ed Gensler Department of State Lands Abandoned Mine Reclamation 1625 11th Avenue Helena, MT 59620

3.0 CHRONOLOGICAL LISTING OF EVENTS

HMO Project 26 was constructed during 1989 and 1990. The Contractor performed all construction activities according to contract specifications and within the time allowed. The following section describes the sequence of events and milestones for the project.

3.1 PRE-BID CONFERENCE

A pre-bid conference was held on June 21, 1989, at the Montana Department of State Lands in Helena. A slide show was presented to acquaint prospective bidders with site conditions since it was not practical for most contractors to visit each site. The slide presentation included a narrative describing site access and construction considerations for specified reclamation.

3.2 PROJECT BIDS

The Montana Department of Administration, Architecture and Engineering Division publicly opened bids for HMO Project 26 (MONT A/E 89-46-106) on Thursday, July 26, 1989. The three lowest bids are presented below. Complete bid tabulation results are included in Appendix B.

Scott Construction, East Helena, MT	\$174,300.00
Coleman Construction, Dillon, MT	\$177,210.00
Swan and Sons, Anaconda, MT	\$184,975.00

3.3 PROJECT CHRONOLOGY

HMO Project 26 was completed over the course of two construction seasons within the allowed time. There was a work stoppage over the winter period. The following chronology presents the sequence of events that lead to completion of the project.

CONTRACTOR	Scott Construction
NOTICE OF AWARD	July 18, 1989
NOTICE TO PROCEED	August 23, 1989
CONSTRUCTION START-UP	September 6, 1989
WINTER SHUT-DOWN	November 15, 1989
SPRING START-UP	May 21, 1990
SUBSTANTIAL COMPLETION	August 10, 1990
FINAL ACCEPTANCE	August 24, 1990

4.0 PROJECT CONSTRUCTION

4.1 DESCRIPTION OF PROJECT PLAN

HMO Project 26 was designed and implemented with the intent of eliminating accidental or unauthorized entry to mine openings exposing unknown hazards at a number of abandoned hard rock mines in Jefferson and Lewis and Clark Counties. The Project was subsequently expanded to include work in Deerlodge County.

Backfill was recommended for all mine openings to permanently eliminate the hazards associated with abandoned adit and shaft openings. However, many landowners and/or claimants refused to allow backfill, therefore accessing bulkheads (steel grates, culverts, cable nets or adit doors) or farm type 5-wire fences were installed. These alternative methods do accomplish the goals of preventing accidental entry but are semi-permanent in nature and are subject to vandalism.

Steel grate systems used as shaft closures were fabricated by an independent contractor. The grates were available for transport to Project 26 sites at the start of the project. This arrangement resulted in cost savings and eliminated the need for additional contract time (which would have been necessary if grate fabrication had been the responsibility of the construction contractor).

At three shaft sites slated for steel grate systems, historic headframes interfered with placement of the standard prefabricated grate sections. In order to comply with State requirements to maintain the cultural integrity of reclamation sites, specialty grates were fabricated on-site by the Contractor to accommodate the headframe support timbers. The specialty grates were fabricated and installed according to the standard specifications for steel grate systems included in the contract documents.

Landowners whose property(s) were afforded semi-permanent, locking closures were sent a release form from DSL to sign and return regarding the condition of their underground workings. Table 4-1 presents the status of the key receipts and the signed forms are included as Appendix C.

4.2 CONTRACTOR'S OPERATION

The project was performed utilizing a crew of two to three men. Lee Scott and Gary Martinson were supervisors at various times during the project and their crew consisted of Marvin Tabbert, Lyle Martinson, Wes Simpson and Dan Dahl.

TABLE 4-1
KEY RECEIPT ACKNOWLEDGEMENT STATUS

MINING DISTRICT	SITE NAME	NO.	CLOSURE	LANDOWNER	KEY RECEIPTS
Alhambra	Alhambra Hot Springs	1-2	Grate	Mabel Bompart	Yes
Alhambra	B & G	3-8	Grate	Champion Gold & Silver % Peter Laczay	No
Clancy	Delanie	2-2 2-3	Grate Culvert	Richard Engstrom	Yes
Clancy	Frohner	3-4/5	Grate	William Van Matre	No
Clancy	General Grant	4-10	Grate	James Crawford	No
Clancy	O.K.	5-13	Culvert	Barry M. Potter Dan McEachern	Yes Yes
Clancy	Superior	15-26	Cable Net	Robert Levitan	Yes
Colorado	Bluestone	3-2	Cable Net	U.S. Energy Corp.	Yes
Colorado	Lake	8-9	Culvert	Margaret Dupaix	Yes
Colorado	NE NE Section 29	11-12	Culvert	Bar ED Ranch	Yes
Colorado	Rarus	2-13	Culvert	Jack McLeod & Assoc.	No
Colorado	Salvail	15-17	Culvert	Joseph Mason Montana Tunnels Mining	No Yes
Blue Cloud	Looby	13-23 13-24	Grate Grate	R.V. Ranch Carl Jorgenson	Yes Yes
Blue Cloud	Silver Coin	11-8 11-9/12/14 11-10/13 11-11	Lock Grate Cable Net Culvert	Trigg Oil & Mining Company	No
Blue Cloud	Silver Coin North	12-15	Grate	Trigg Oil & Mining Co.	No
Blue Cloud	Stemwinder	9-17 9-18/19/20	Cable Net Culvert	Garreth Glanzman Michael Zimmerman Robert Clearman	Yes No Yes
Helena	Arrastra Gulch	1-1/2/4 1-64 1-65/66	Culvert Cable Net Culvert	John Brekstad	No
Helena	Bluebird	4-61	Culvert	Joe Sprinkle Ardic Exploration	No No
Helena	Daylight	17-10/71/72 17-75	Culvert Grate	Ardic Exploration	No
Helena	Golden	6-11	Culvert	Ardic Exploration	No

TABLE 4-1 (continued)
KEY RECEIPT ACKNOWLEDGEMENT STATUS

MINING DISTRICT	SITE NAME	NO.	CLOSURE	LANDOWNER	KEY RECEIPTS
Helena	Howard	3-12	Adit Gate	BPOE Elks % Bill Tangen	No
Helena	NE NE Section 9	22-18	Culvert	Ardic Exploration	No
Helena	NE NW Section 12	5-20/21/22/23	Culvert	Barron K. Brown Roger Niemi	No No
Helena	NE SE Section 8	7-24 7-25	Culvert Cable Net	Vernon DeRuyter	Yes
Helena	NE SW Section 36	8-26/27/28	Cable Net	Nora B. McKelvey Gordon Tracey	No Yes
Helena	Park City	10-39/40	Culvert	Stardust, Inc. % Warren Meader	Yes
Helena	SW NW Section 11	12-42/43/44 12-60/69/70	Culvert Culvert	Ardic Exploration	No
Helena	SW SW Section 11	24-49	Cable Net	Ardic Exploration	No
Helena	Squaw Gulch	16-51/53	Cable Net	Ardic Exploration	No
Helena	Twilight	2-55/73/74	Culvert	Ardic Exploration	No
Scratchgravel	Ariadene	1-1/3 1-2	Cable Net Culvert	Mary Ann Manger	Yes
Scratchgravel	Carbonate	2-4	Cable Net	Mary Ann Manger	Yes
Scratchgravel	Eagle	3-12/13/15/16	Culvert	Arthur Fredriksen	Yes
Scratchgravel	Franklin	18-47/48	Grate	Thomas Cruse Mining	Yes
Scratchgravel	NE SW Section 26	15-22 15-23/24/25	Cable Net Culvert	Strongbow Resources Beatrice Braziel	No Yes
Scratchgravel	NE SW Section 36	6-26	Culvert	Mary Ann Manger	Yes
Scratchgravel	SE NE Section 35	7-29/31/55/56 7-32 7-33/51	Cable Net Adit Gate Culvert	Arvil Jackson Roger Little	Yes Yes
Scratchgravel	SE SE Section 35	9-36	Culvert	Modern Exploration	Yes
Scratchgravel	Tavo	14-47	Grate	Mary Ann Manger	Yes
Blue Eyed Nellie	Bonita	20-50	Grate	James R. Miller	Yes
Blue Eyed Nellie	Boomerang	21-51	Grate	James R. Miller	Yes
Georgetown	Bob Evans	8-13	Grate	Steve Lane	Yes
Georgetown	Twilight	7-12	Grate	Steve Lane	Yes

The following list identifies the major equipment used by Scott Construction to complete HMO Project 26.

- 3/4 Ton Four Wheel Drive Flatbed Truck
- 5 Yard Dump Truck
- Case 580 D Backhoe
- Cat D-7 Dozer
- Cat 931 Track Loader
- Compressor and Air Drill
- 3/4 Ton Four Wheel Drive Tool Truck
- 1/2 ton Four Wheel Drive Truck & Portable Welder
- 1/3 Yard Portable Concrete Trailer
- Tilt Bed Trailer
- Cat 960 Wheel Loader
- Tractor/Air Compressor
- Four Wheel Drive All Terrain Vehicle

4.3 CHANGE ORDERS

Seven change orders were issued during HMO Project 26 for a net change in contract price of (+) \$ 66,688.44 or 27.7% of the contract total. The purpose of these change orders include reclamation of new sites not specified in the contract documents, modifying the reclamation specified for a site to a more appropriate closure, and performing requested services. Table 4-2 presents a summary of project change orders. Appendix D contains copies of the Change Orders and 21 Work Directives issued for the project.

Change Order No. 5 was issued to consolidate steel grate systems to the Department of State Lands, Central Land Office, on North Montana Avenue, in Helena. Twenty-nine modular grate section had been stored at the construction yard of the independent contractor (Lew Morris) who fabricated the grates for the project.

Change Order No. 6 was issued to perform reclamation of additional mine openings in Deer Lodge County which were identified during HMO Project 25. The contractor on that project (Skinner Enterprises) was unwilling to perform additional work at his contract unit prices so the work was offered to Scott Construction.

TABLE 4-2
CHANGE ORDER SUMMARY

CHANGE ORDER	AMOUNT	DATE
Change Order No. 1	\$ 4,817.39	June 8, 1990
Change Order No. 2	\$ 19,458.35	June 8, 1990
Change Order No. 4	\$ 5,143.30	June 8, 1990
Change Order No. 4	\$ 7,964.75	July 27, 1990
Change Order No. 5	\$ 1,600.00	July 27, 1990
Change Order No. 6	\$ 9,680.00	August 13, 1990
Change Order No. 7	\$ 18,024.65	August 21, 1990

4.4 CONSTRUCTION ACTIVITIES/QUANTITIES USED

The Contractor performed the following work during HMO Project 26:

- ♦ Backfilled 86 mine openings with 14,223.5 cubic yards of material
- ♦ Blasted and collapsed 22 mine openings
- ♦ Installed 54 adit culverts with locking hatches
- ♦ Installed 19 cable net closures
- ♦ Installed 4 steel gate adit doors
- ♦ Installed 23 steel grate systems with locking hatches
- ♦ Installed 49 Owner-provided hazard signs
- ♦ Erected 4679 linear feet of farm type 5-wire fence
- ♦ Seeded, fertilized and mulched all areas disturbed by construction operations

5.0 PROJECT COSTS

5.1 PAYMENT REQUESTS

The total contract amount of HMO Project 26 was \$ 240,988.44 compared to the engineers estimate of \$217,263.50. Table 5-1 presents a summary of the approved payment requests issued for HMO Project 26. Appendix E contains copies of these documents, the Certificate of Substantial Completion, and the Affidavit on Behalf of Contractor.

**TABLE 5-1
PAYMENT REQUEST SUMMARY**

PAYMENT REQUEST	AMOUNT	DATE
Payment Request No. 1	\$ 47,451.09	October 30, 1989
Payment Request No. 2	\$ 76,233.14	January 3, 1990
Final Payment Request	\$ 117,304.21	September 7, 1990
Total Contract Amount	\$ 240,988.44	

5.2 COST PER DISTRICT/MINE OPENING

The cost of reclamation performed in the eight mining districts and Deer Lodge County (Change Order No.6) is presented in Table 5-2. These totals include fabrication cost of the steel grate sections which were provided to the contractor to install for the project. Appendix E contains a summary of project quantities and details the costs for each mine opening involved in HMO Project 26.

TABLE 5-2
COST PER DISTRICT
(including steel grate fabrication costs)

Jefferson County	
Alhambra District	\$ 23,555.61
Clancy District	\$ 38,867.97
Colorado District	\$ 14,080.25
McClellan District	\$ 3,257.33
Montana City District	\$ 3,987.03
Lewis and Clark County	
Blue Cloud District	\$ 40,255.60
Helena District	\$ 80,931.17
Scratchgravel District	\$ 51,543.60
Deer Lodge County	\$ 16,457.14
Reclamation Costs	\$258,535.70
Moving Steel Grates (Change Order No.5)	<u>\$ 1,600.00</u>
TOTAL PROJECT COST	\$274,535.70

5.3 PROFESSIONAL SERVICE FEES

Services provided by Chen-Northern, Inc. included landowner consent, budget preparation, grant application, weed board approval, basic engineering, construction contract administration, quantity accounting and full time resident inspection. The project included 103 sites in three counties resulting in extensive travel time. Construction activities were performed during two construction seasons. An analysis of these fees in relation to the Total Project Cost is included as Table 5-3.

TABLE 5-3
ANALYSIS OF PROFESSIONAL SERVICE FEES
HAZARDOUS MINE OPENING PROJECT 26

DESIGN COST -Grant Preparation, Site Evaluation, Engineering and Bid Documents	\$ 12,599.87
---	--------------

INSPECTION COSTS - Construction Administration, Construction Inspection, and Final Report	<u>\$ 52,540.44</u>
Inspection, and Final Report	

CHEN-NORTHERN COSTS	\$ 65,140.31
---------------------	--------------

STEEL GRATE FABRICATION COSTS	\$ 33,547.26
-------------------------------	--------------

CONTRACTORS CONSTRUCTION COSTS	<u>\$ 240,988.44</u>
--------------------------------	----------------------

TOTAL HMO PROJECT 26 CONSTRUCTION COSTS	\$ 274,535.70
---	---------------

PERCENTAGE ANALYSIS

Chen-Northern Design Cost/Total Construction Cost	4.6%
---	------

Chen-Northern Inspection Cost/Total Construction Cost	19.1%
---	-------

Total Chen-Northern Cost/Total Construction Cost	23.7%
--	-------

6.0 PROJECT SUMMARY

6.1 SUMMARY OF PROJECT

Appendix F contains a reconciliation of the work specified in the contract documents compared to what was actually constructed at each site involved in HMO Project 26. Table 6-1 summarizes these project statistics. Numerous openings found during the course of construction were added to the project and others were deleted due to their natural collapse since the time of inventory. Other changes resulted from directives issued by new owners or lessees not originally contacted for reclamation consent.

TABLE 6-1
RECLAMATION CLOSURES SPECIFIED VS. CONSTRUCTED

RECLAMATION	NUMBER SPECIFIED	NUMBER CONSTRUCTED
Steel Grate Systems	16	23
Adit Culverts	27	54
Adit Gates	2	4
Cable Nets	37	19
Blasts	20	22
Backfill	10500 (c.y.)	14223.5
Farm Fence	2550 (l.f.)	4679
Signs	37	49

The most significant change involved the installation of culverts in place of the cable nets specified in the bid document. A majority of the adit portals consisted of rock that was fractured and unsupported. The vibration caused by the drilling required for rock bolt installation often jeopardized the operators safety by dislodging loose rock. In numerous cases a drill hole suitable for rock bolt installation could not be obtained therefore, culverts were installed in these portals instead.

6.2 SITE CONDITIONS AFTER COMPLETION

Vandalism of several constructed bulkheads was observed upon final inspection at the close of the project. In the Scratchgravel District, the cable net perimeter cable was cut at SE NE Section 35 Site #7-56. Also, the cable net lock box anchor bolt was pried from the headwall at Ariadene #1-2. In the Helena District, the SW NW Section 11, #12-42 culvert hatch "I" bolt was pulled from the inside culvert nut, allowing for entry. These mine closures are located adjacent to residential areas or near well used access routes. These acts of vandalism occurred in a time period of less than one year from when they were constructed. No maintenance was performed on these constructed closures.

6.3 MONITORING

Periodic monitoring of sites backfilled during the project for subsidence should be conducted to ensure adequacy of the fill. Landowners were offered a "permanent" closure by selecting the backfill option. To minimize any liability to the State, all backfilled mine openings should be inspected on an annual basis for several years following completion of the project.

The semi-permanent closures (culverts, cable nets, steel grates and fences) installed during the project may protect against unauthorized entry for a limited time. Vandalism and damage due to natural causes has been, and will continue to be a problem with these types of closures. To reduce the public safety hazard associated with damaged closures, a monitoring program should be instituted to inspect all bulkheads and fences periodically. Any human or naturally caused damage should be reported to landowners for their own repair.

Revegetation efforts should be monitored over several years after construction. The results of vegetation inspections on reclaimed sites will provide data on species which can successfully revegetate mined areas. The presence or absence of weeds should also be documented for future weed control plans.

6.4 MAINTENANCE

Maintenance on several sites constructed during previous HMO phases was performed during HMO Project 26. The Contractor invoiced DSL separately for this additional reclamation making it possible to utilize maintenance funds to accomplish the work. The maintenance consisted of backfilling hazardous subsidence resulting from settlement which had occurred since the initial reclamation. Table 6-2 presents information on the sites maintained during HMO Project 26.

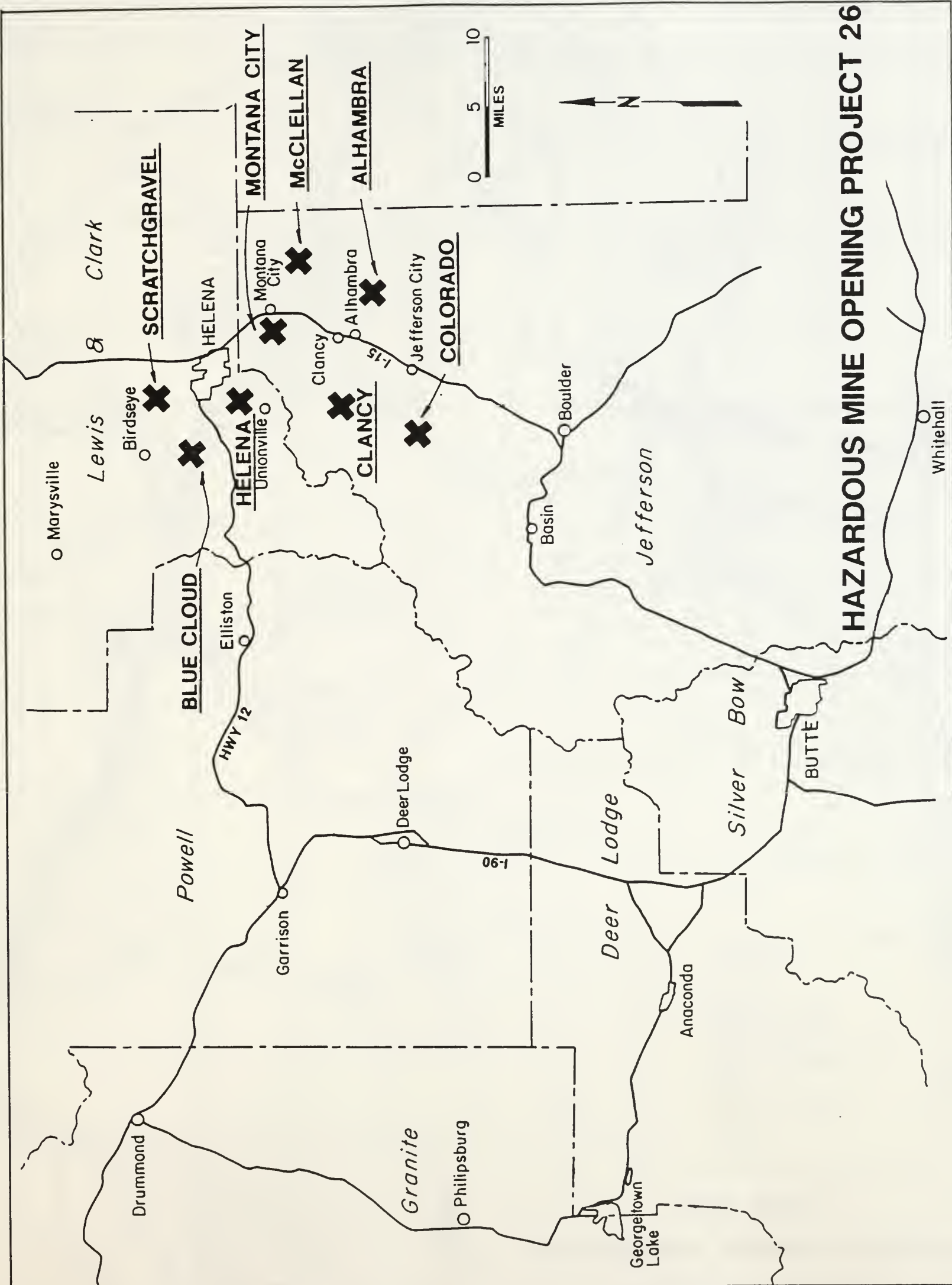
**TABLE 6-2
MAINTENANCE SITES**

COUNTY/ MINING DISTRICT	SITE NAME	PREVIOUS HMO PROJECT	REASON FOR MAINTENANCE	COMMENTS
Jefferson/Alhambra	Maupin Creek (Euclid)	Phase 9	Subsidence	This was the second time backfill had subsided at this site.
Jefferson/Alhambra	Maupin Creek	Phase 9	Destroyed Wood Cover	The Warm Springs Creek forest fire of 1988 destroyed the headframe and constructed closure over this shaft. Backfilling was performed as maintenance.
Deer Lodge/ Silver Lake	Daly Gulch	Phase 18	Failure of Wood Cover	The constructed wood cover collapsed into the shaft opening. Backfilling was performed as maintenance.

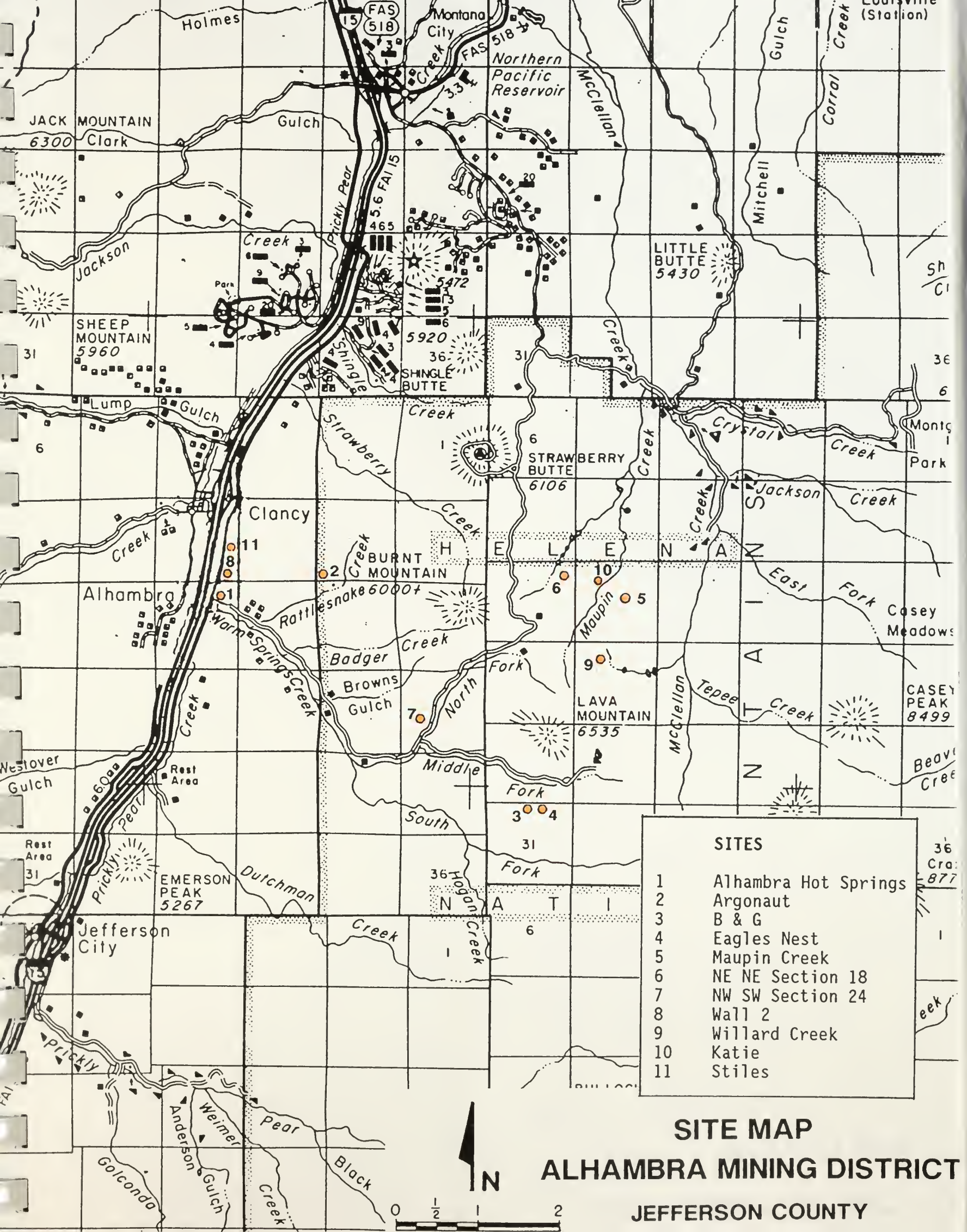
7.0 SLIDES

Before, during, and post-construction slide photographs were taken of each opening. These slides and a slide log are contained in Appendix G.

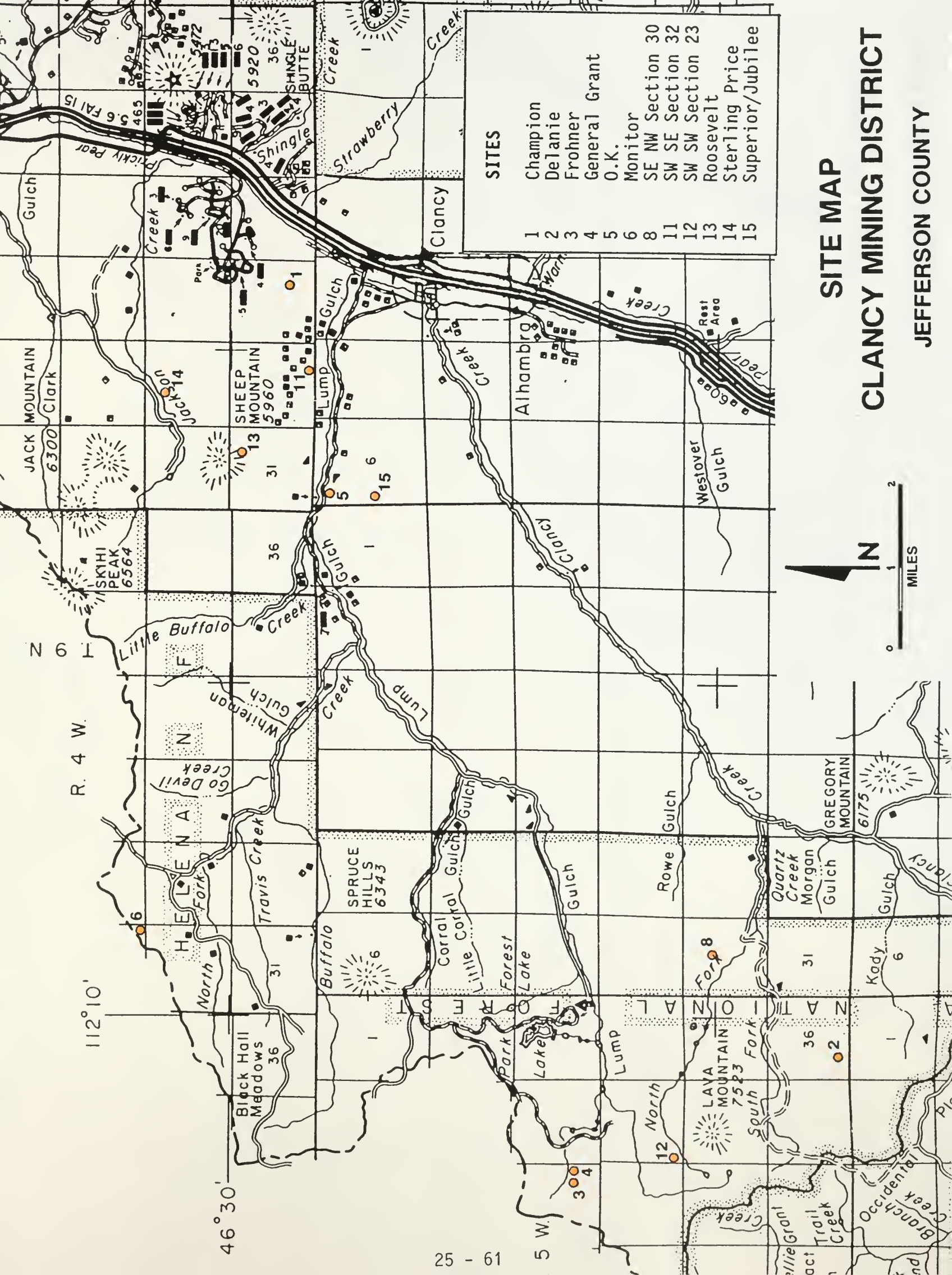
APPENDIX A
VICINITY AND HAZARD MAPS



HAZARDOUS MINE OPENING PROJECT 26







SITES

- | | |
|----|------------------|
| 1 | Champion |
| 2 | Delanie |
| 3 | Frohner |
| 4 | General Grant |
| 5 | O.K. |
| 6 | Monitor |
| 8 | SE NW Section 30 |
| 11 | SW SE Section 32 |
| 12 | SW SW Section 23 |
| 13 | Roosevelt |
| 14 | Sterling Price |
| 15 | Superior/Jubilee |

SITE MAP

CLANCY MINING DISTRICT

JEFFERSON COUNTY





FOR EST

LEWIS AND CLARK CO
JEFFERSON CO

JEFFERSON
LEWIS AND CLARK CO

North

七

Travis

Creek

Creek

signs

GC

GC

Creek

Travis

Travis

HELENA

HELENA

Buffalo

Buffalo

55287

55287

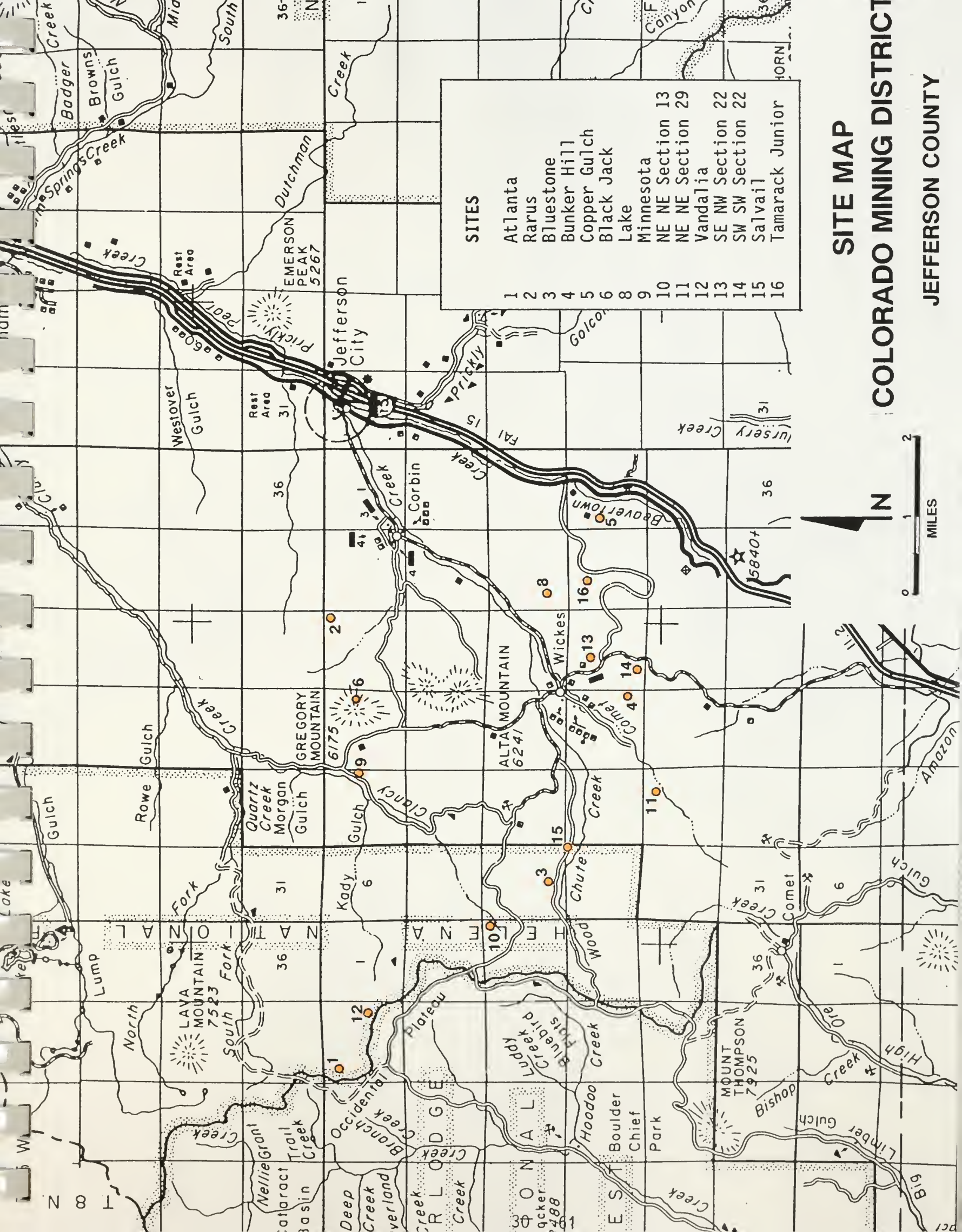
HAZARD MAP

Creek

Creek

CLANCY DISTRICT

CLANCY DISTRICT

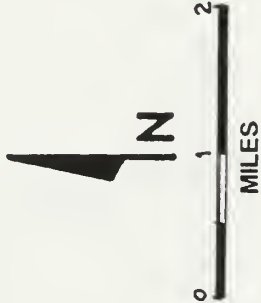


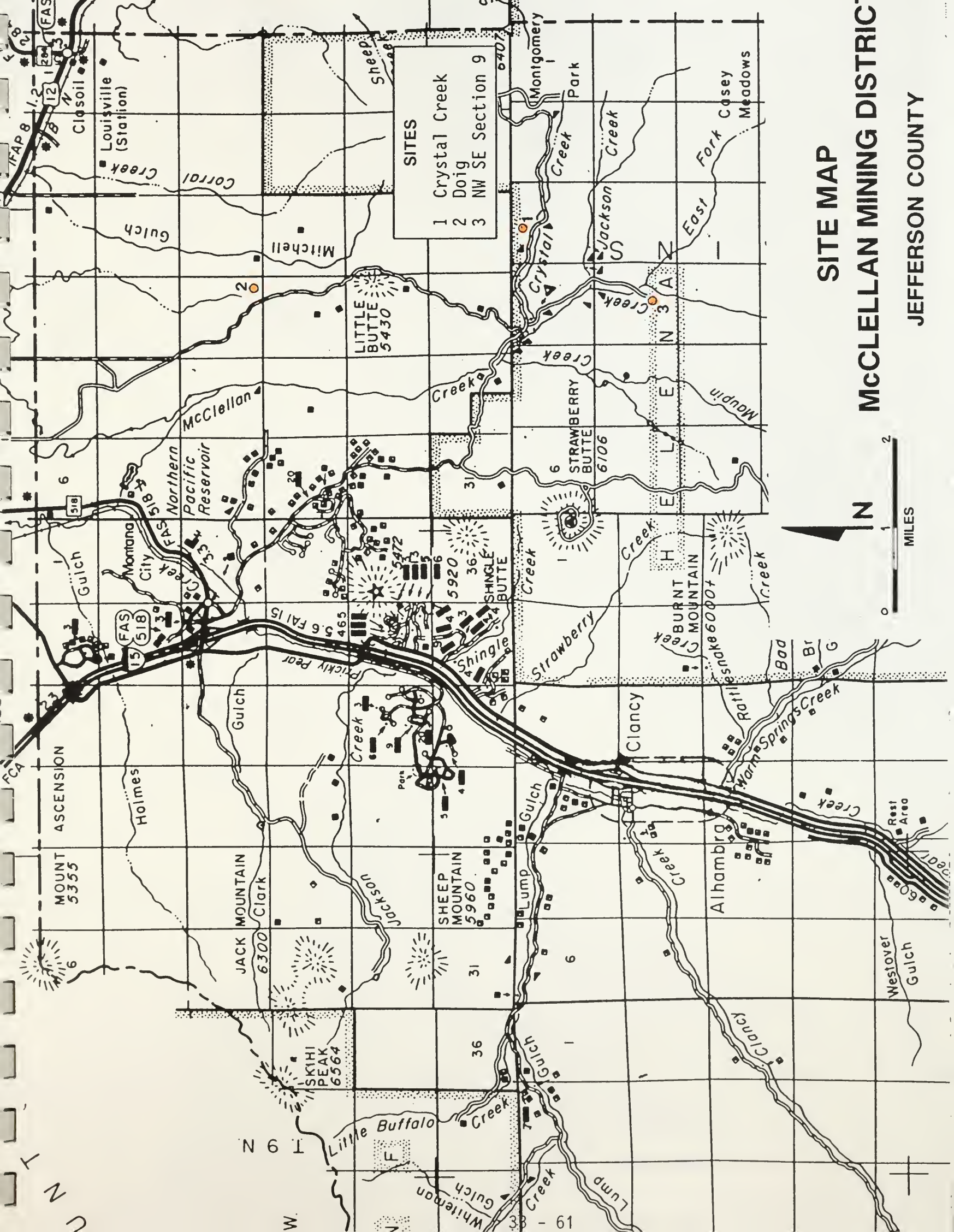
SITES	
1	Atlanta
2	Rarus
3	Bluestone
4	Bunker Hill
5	Copper Gulch
6	Black Jack
8	Lake
9	Minnesota
10	NE NE Section 13
11	NE NE Section 29
12	Vandalia
13	SE NW Section 22
14	SW SW Section 22
15	Salvail
16	Tamarack Junior

SITE MAP

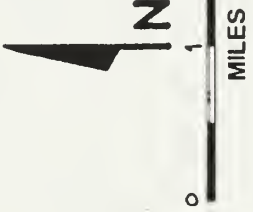
COLORADO MINING DISTRICT

JEFFERSON COUNTY





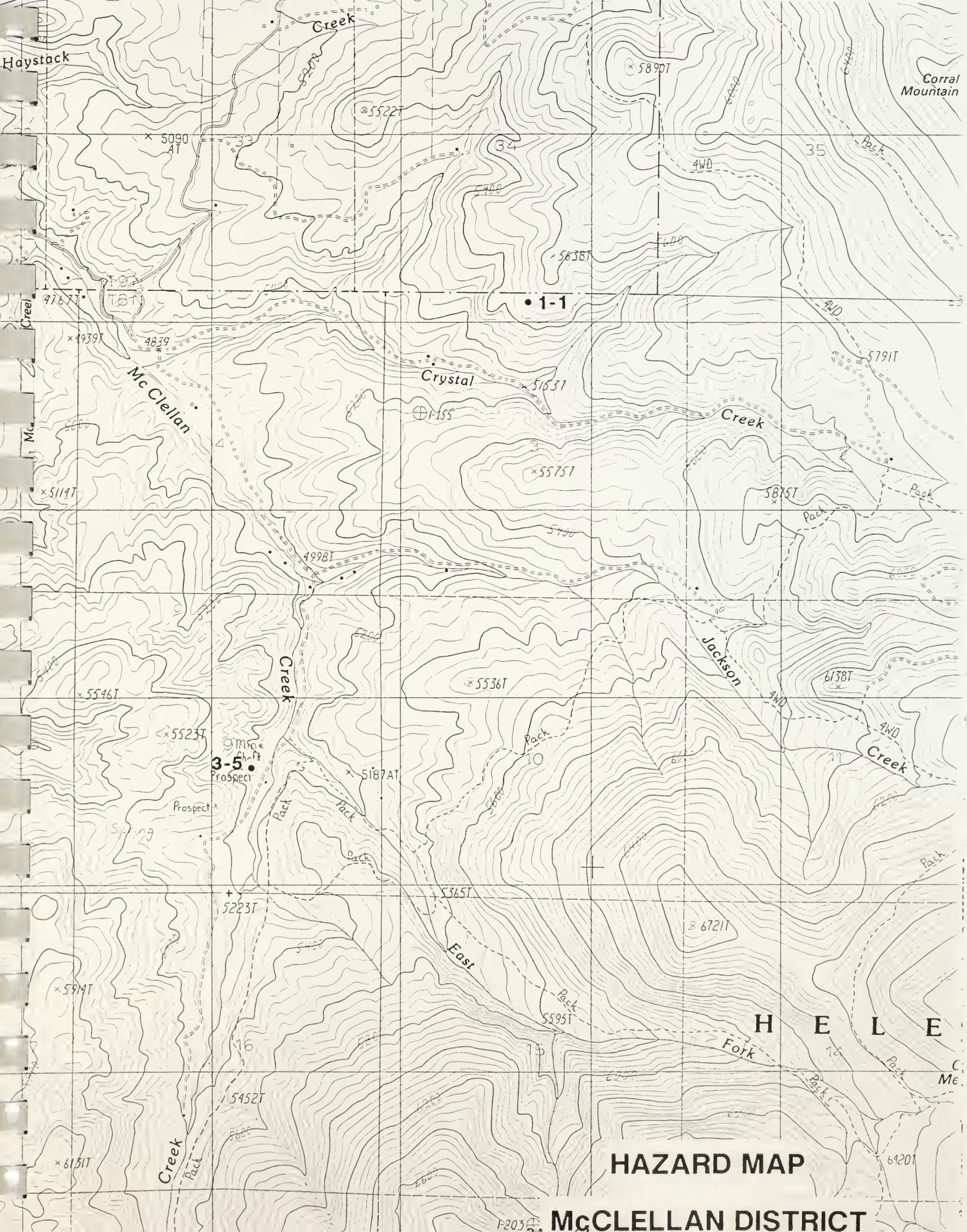
- SITES**
- 1 Crystal Creek
 - 2 Doig
 - 3 NW SE Section 9

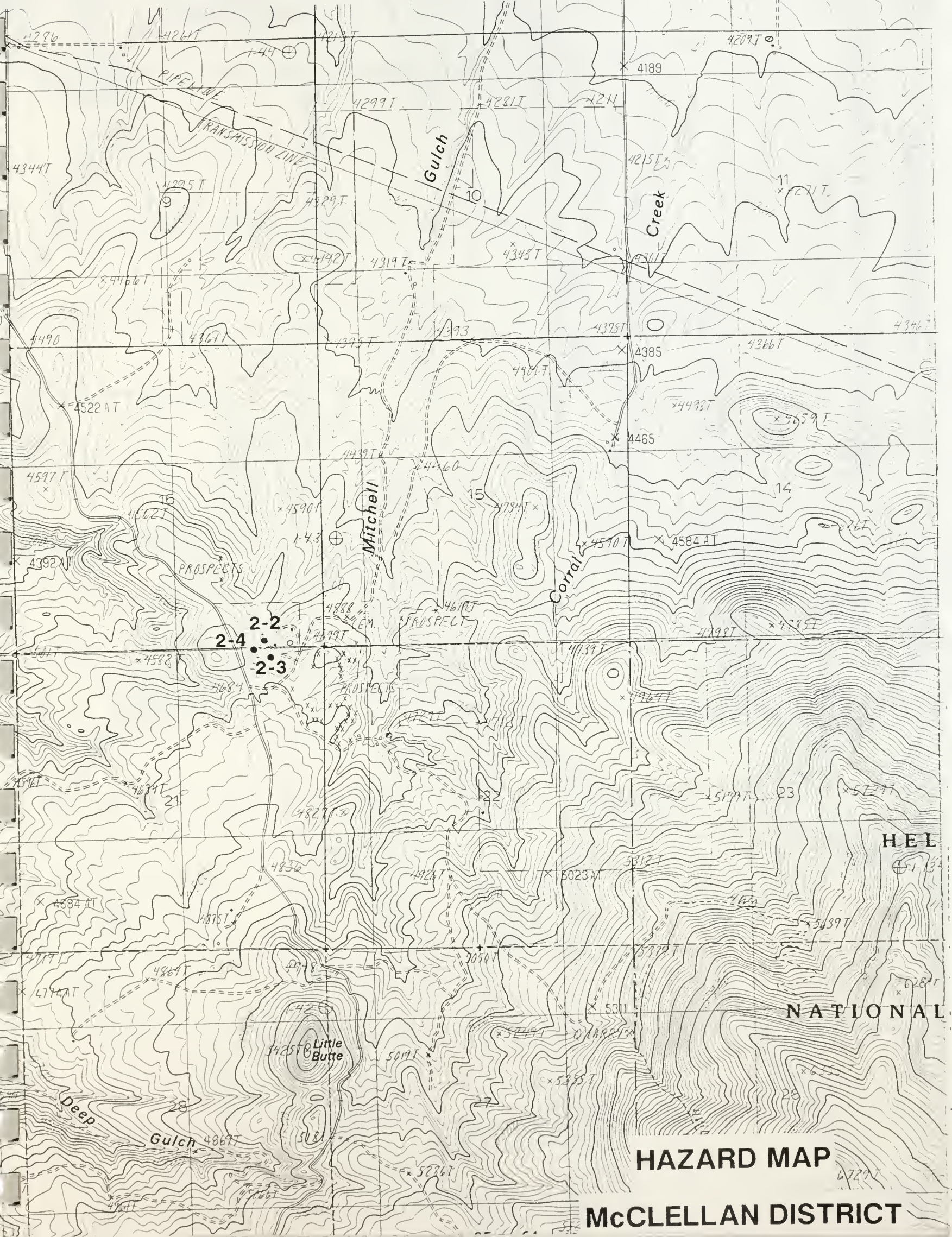


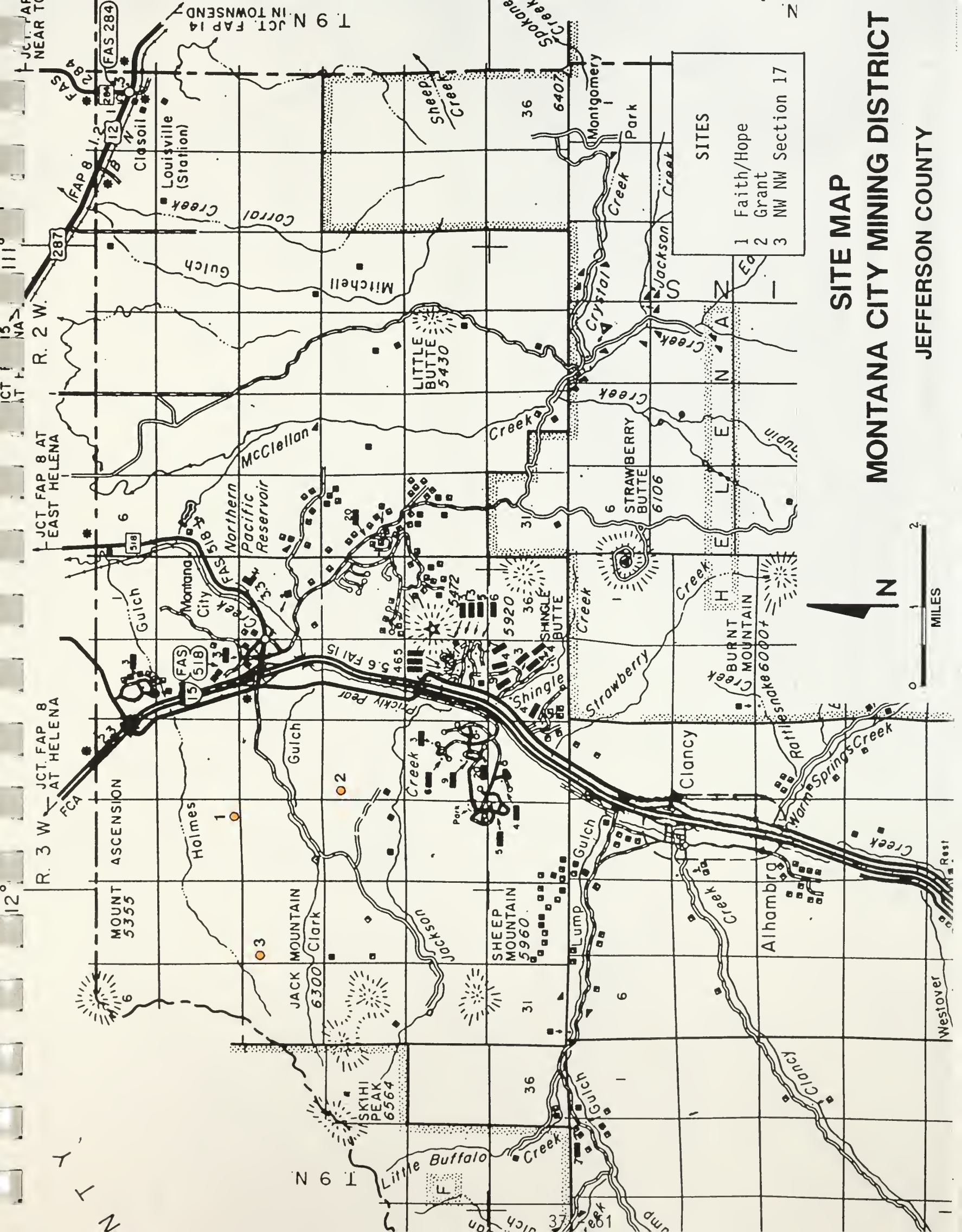
SITE MAP

MCCLELLAN MINING DISTRICT

JEFFERSON COUNTY





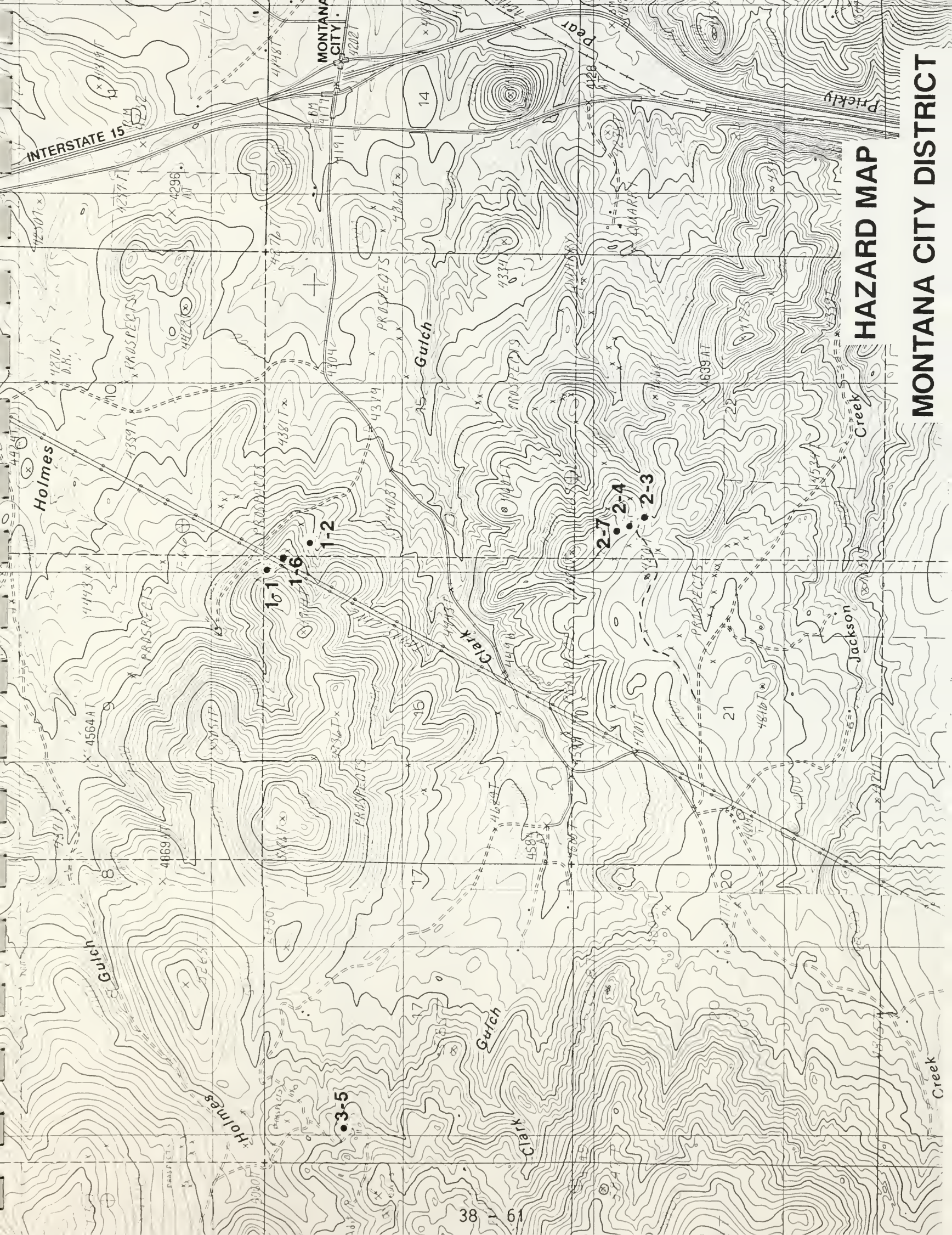


SITE MAP

MONTANA CITY MINING DISTRICT

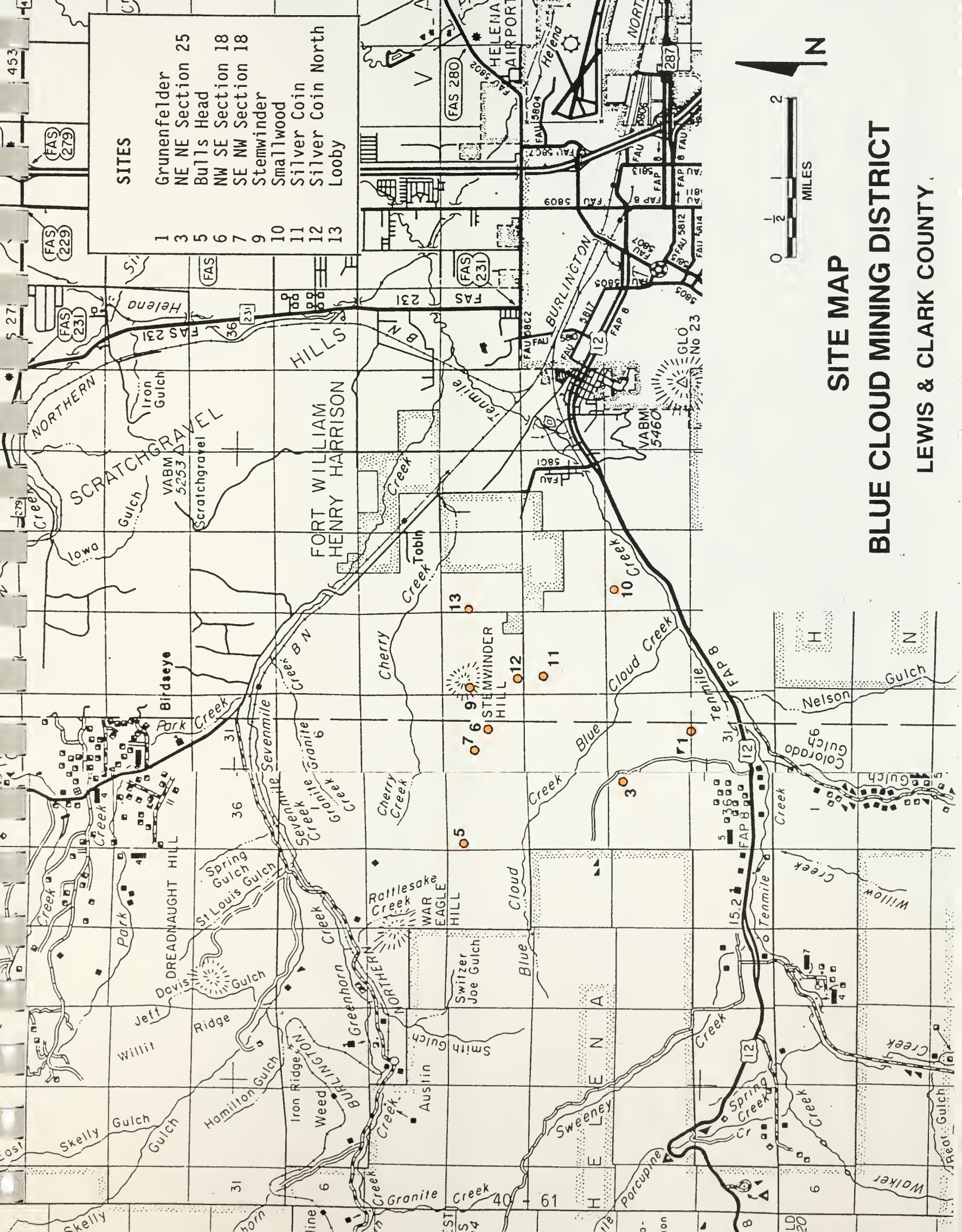
JEFFERSON COUNTY

- SITES**
- 1 Faith/Hope Grant
 - 2 Grant
 - 3 NW NW Section 17



HAZARD MAP

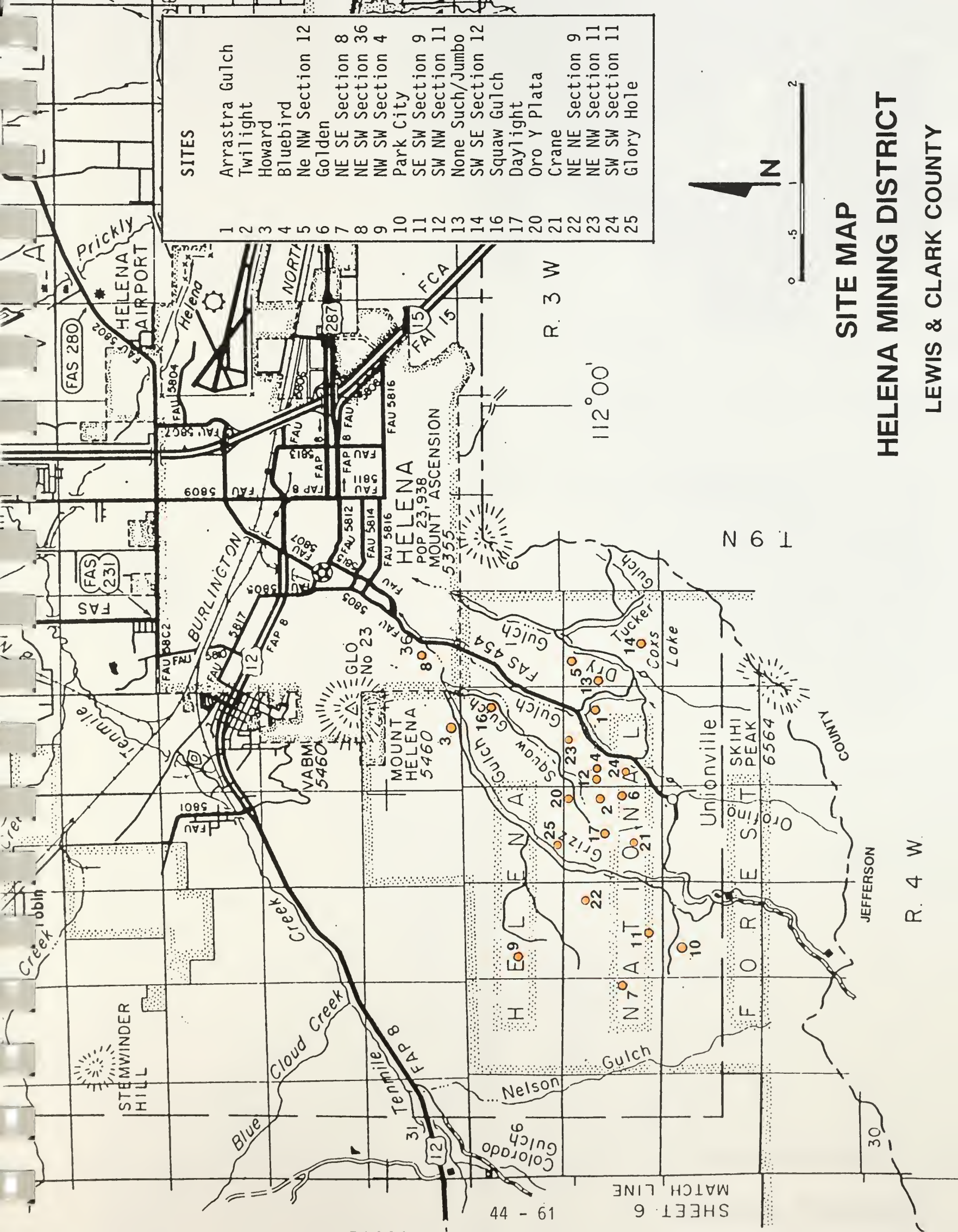
MONTANA CITY DISTRICT





HAZARD MAP

BLUE CLOUD DISTRICT



SITES

- Arrastra Gulch
- Twilight
- Howard
- Bluebird
- Ne NW Section 12
- Golden
- NE SE Section 8
- NE SW Section 36
- NW SW Section 4
- Park City
- SE SW Section 9
- SW NW Section 11
- None Such/Jumbo
- SW SE Section 12
- Squaw Gulch
- Daylight
- Oro Y Plata
- Crane
- NE NE Section 9
- NE NW Section 11
- SW SW Section 11
- Glory Hole

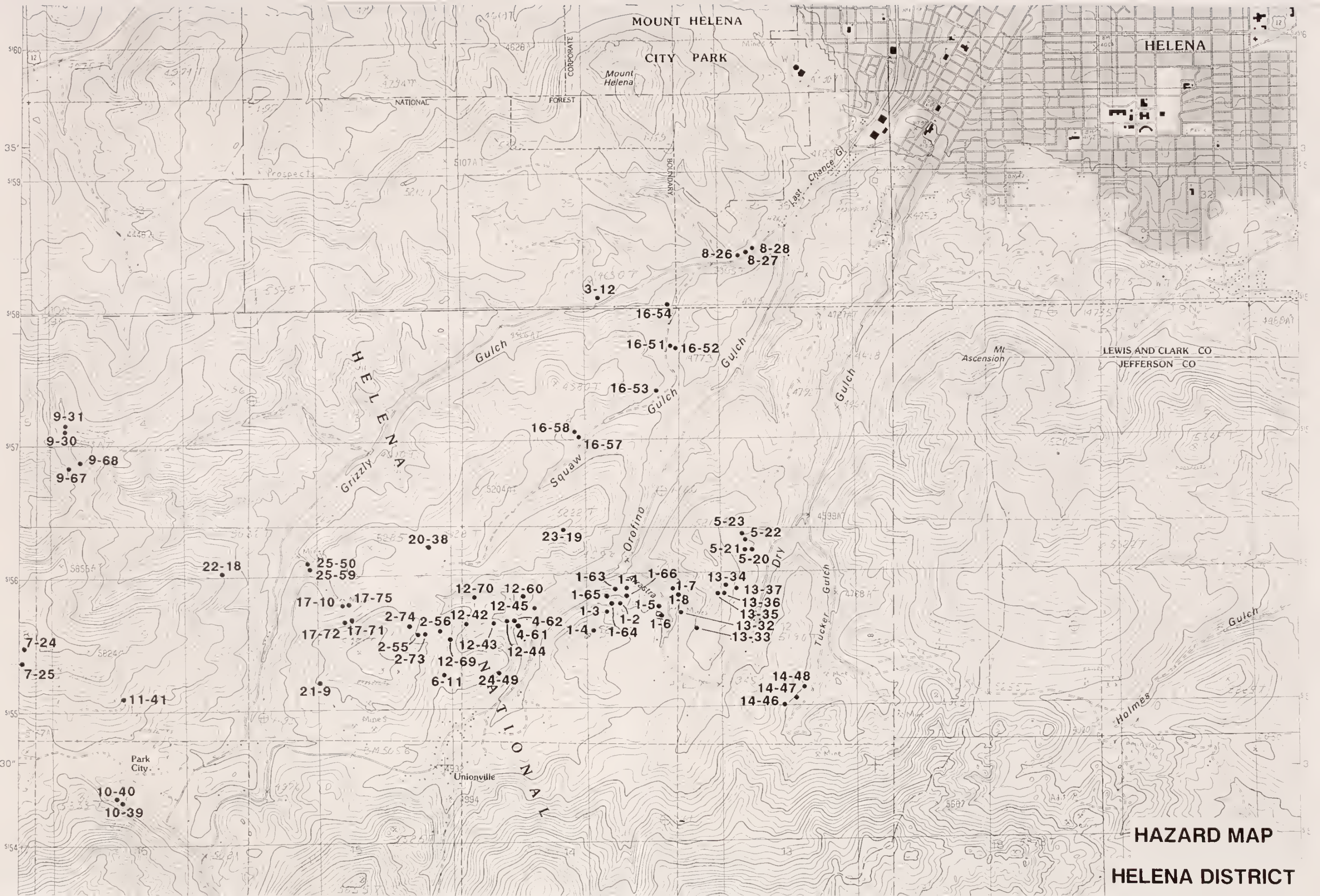
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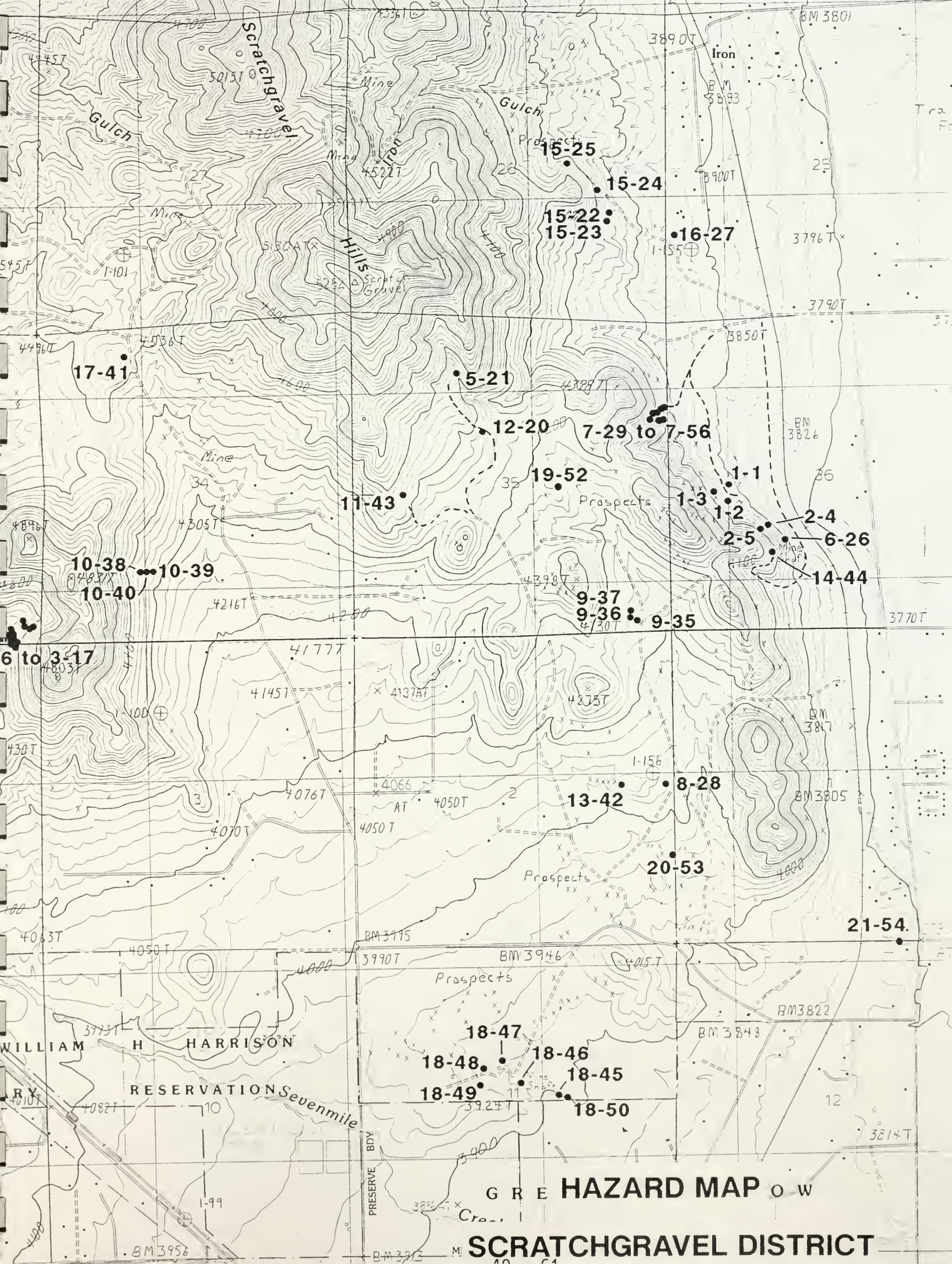
SITE MAP

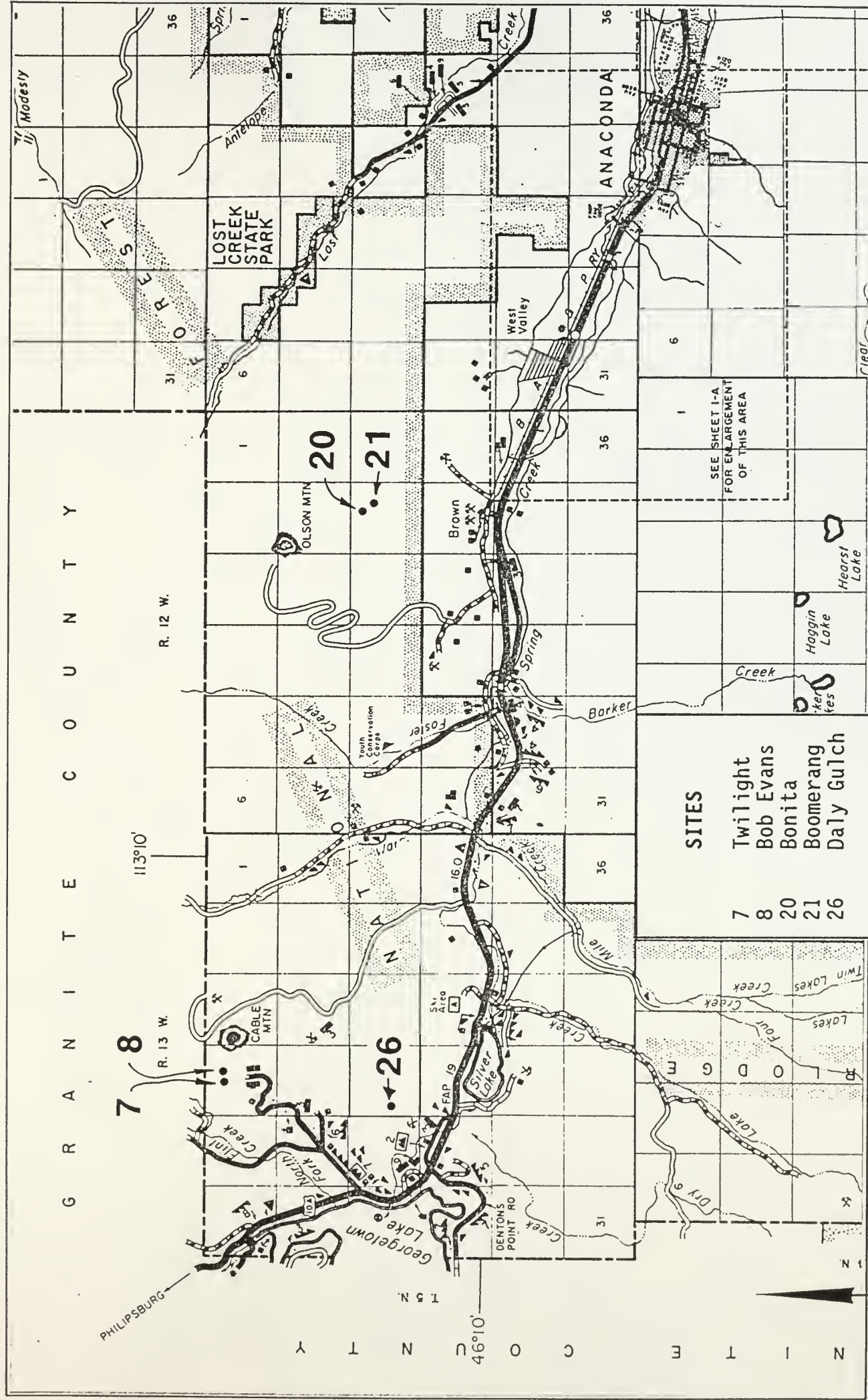
HELENA MINING DISTRICT

LEWIS & CLARK COUNTY

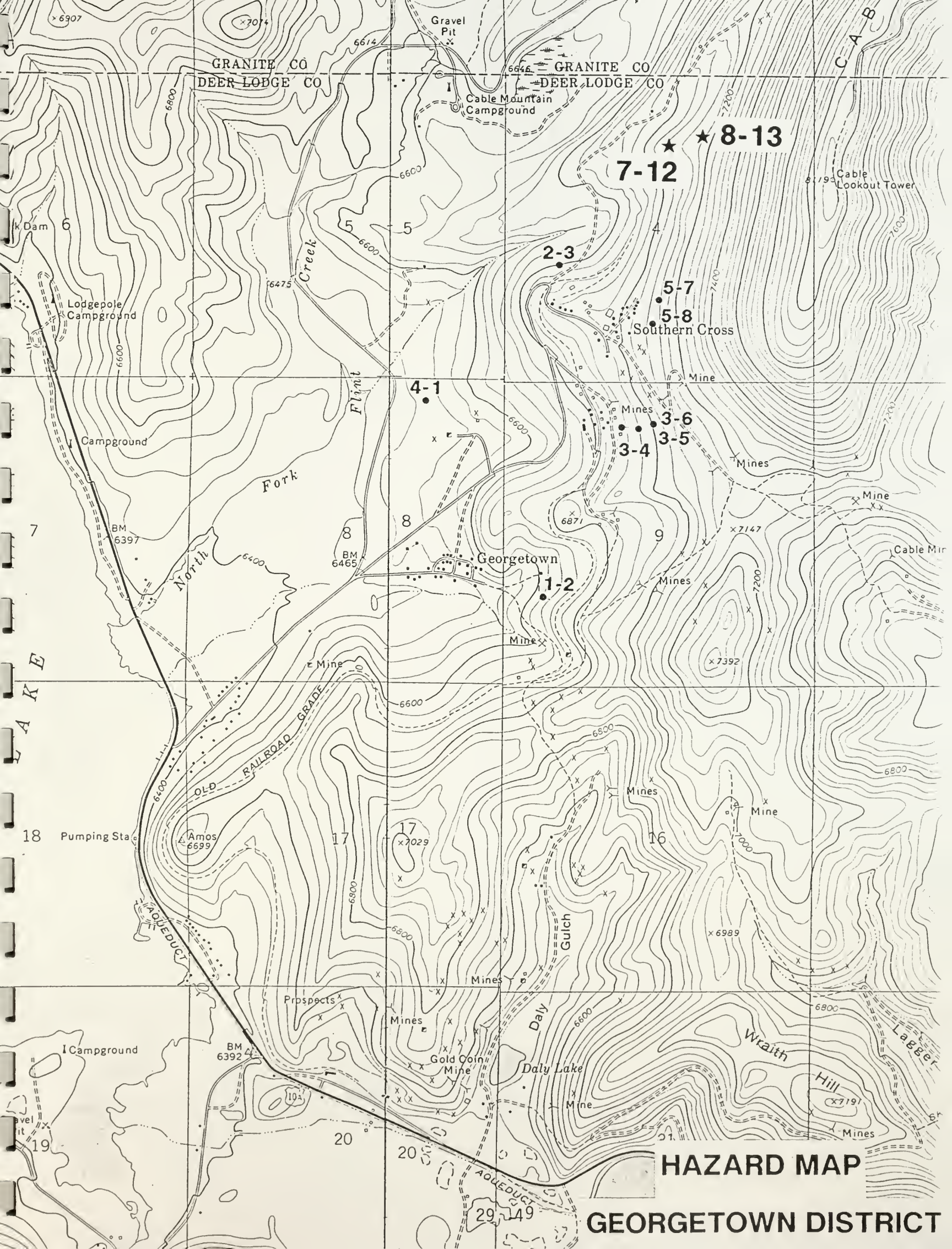


HAZARD MAP
HELENA DISTRICT



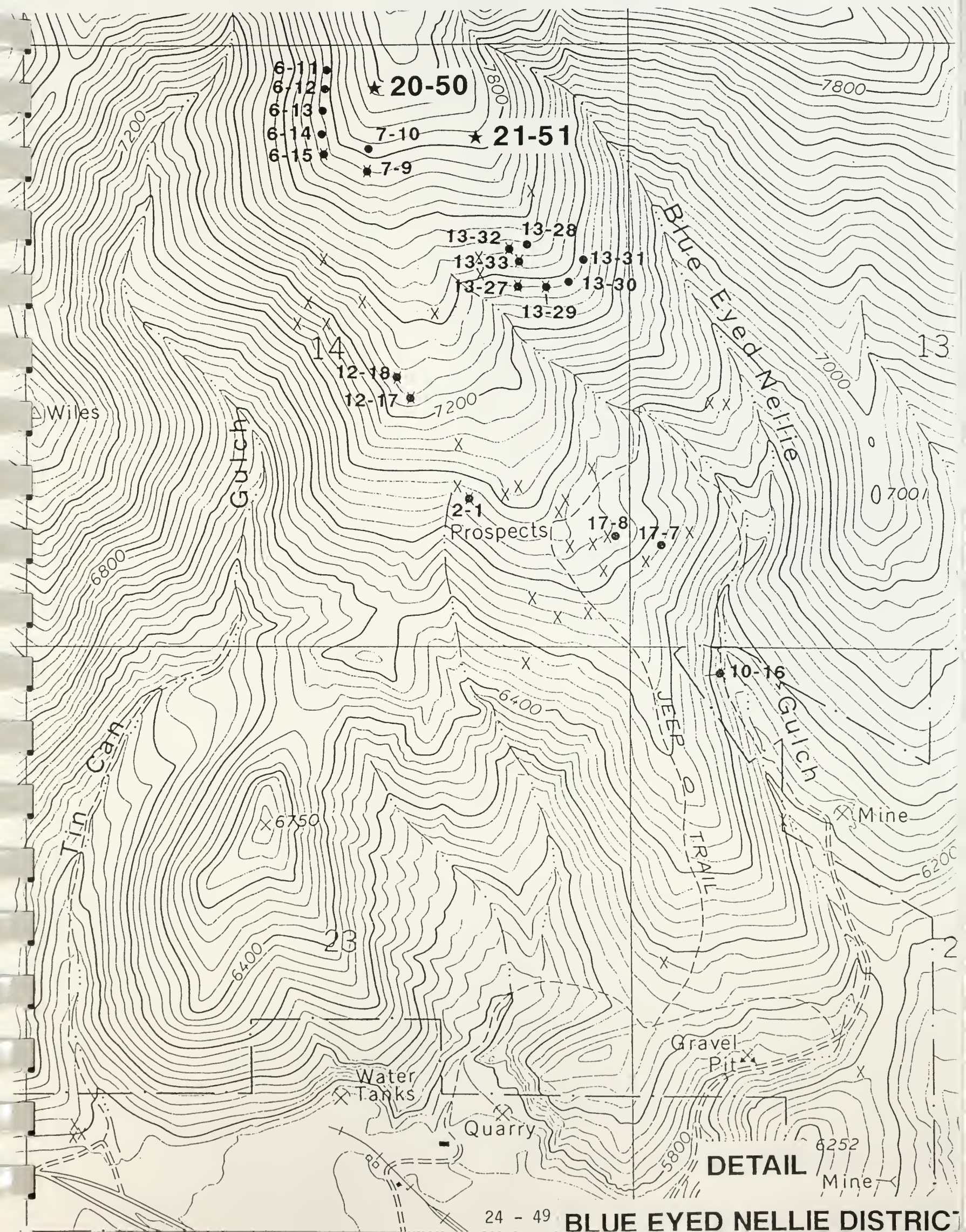


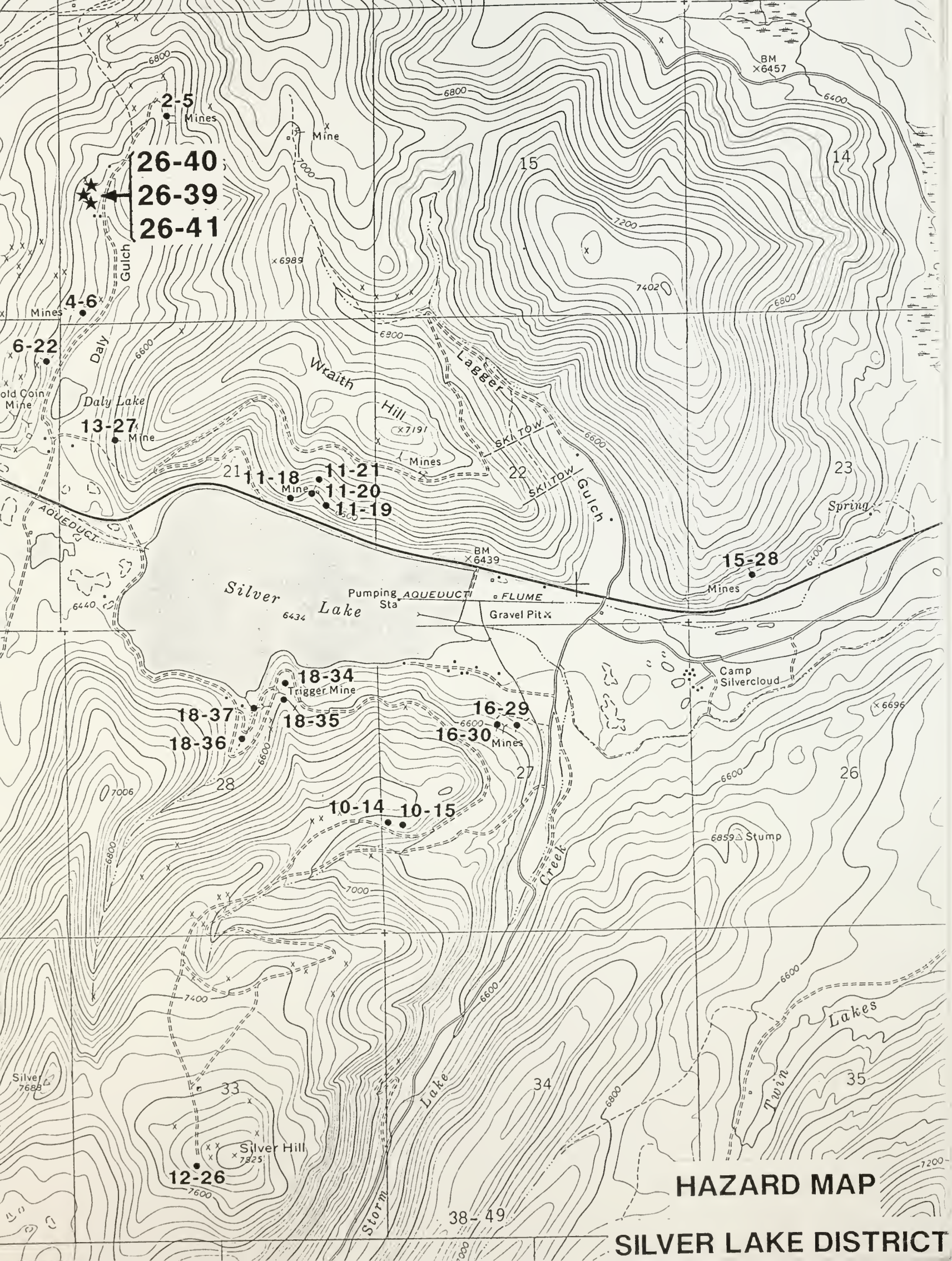
DEER LODGE COUNTY SITES



HAZARD MAP

GEORGETOWN DISTRICT





APPENDIX B

BID TABULATIONS

HAZARDOUS MINE OPENING PROJECT

PHASE 26

JEFFERSON AND LEWIS & CLARK COUNTIES, MONTANA

MONT A/E 88-146-106

810 TABULATION RESULTS

810 OPENING: JULY 6, 1989

Item No.	Estimated Quantity	Unit	Description	Scott Construction East Helena, MT Montana Contractor's License No. 5357A			Coleman Construction Dillon, MT Montana Contractor's License No. 6321A			Swan & Sons Anaconda, MT Montana Contractor's License No. 2732A			Skinner Enterprises Helena, Montana Montana Contractor's License No. 2602A		
				Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price	
1.	1	LS	Mobilization	L/S	1,400.00		L/S	200.00		L/S	5,000.00		L/S	40,000.00	
2.	10600	CY	Backfilling Mine Openings	4.25	44,625.00		5.00	52,500.00		4.00	42,000.00		3.00	31,500.00	
3.	20	EA	Blasting/Collapsing Mine Openings	500.00	10,000.00		300.00	6,000.00		600.00	12,000.00		300.00	6,000.00	
4.	27	EA	Adit Culvert	1,400.00	37,800.00		1,500.00	40,500.00		1,600.00	43,200.00		1,500.00	40,500.00	
5.	37	EA	Cable Net Mine Closure	875.00	32,375.00		750.00	27,750.00		700.00	25,900.00		600.00	22,200.00	
6.	2	EA	Steel Gate Adit Door	1,000.00	2,000.00		1,200.00	2,400.00		1,500.00	3,000.00		1,500.00	3,000.00	
7.	16	EA	Steel Grate Systems	1,950.00	31,200.00		2,000.00	32,000.00		2,200.00	35,200.00		1,200.00	19,200.00	
8.	37	EA	Attaching Permanent Owner-Provided Signs	25.00	925.00		30.00	1,110.00		25.00	925.00		50.00	1,850.00	
9.	2550	LF	Farm Fence (Type F-5)	4.50	11,475.00		5.00	12,750.00		5.00	12,750.00		4.00	10,200.00	
10.	1.0	LF	Miscellaneous Site Work		<u>2,500.00</u>			<u>2,000.00</u>			<u>5,000.00</u>			<u>13,000.00</u>	
TOTAL BASE BID					174,300.00			177,210.00			184,975.00			187,450.00	

APPENDIX C

KEY RECEIPT ACKNOWLEDGEMENTS

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Alhambra Mining District
Alhambra Hot Springs Site #1-2
T8N R3W S16 NW NE
Jefferson County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Mabel D. Bampton
Name Date

Ernest H. March
Witness Date 7-27-90

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Clancy Mining District
Delanie Site #2-2/#2-3
T8N R5W S36 SE SW
Jefferson County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Richard A. Engstrom 7-27-90
Name Date

Mrs John V. Pigg 7-27-90
Witness Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Clancy Mining District
O.K. Site #5-13
T8N R3W S6 NW NW
Jefferson County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

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I certify that I have read, understand, and concur with the statements made on this page.

Don McEachern

Name

July - 26 - 90

Date

Donald J. McEachern

Witness

26 July 1990

Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Clancy Mining District
O.K. Site #5-13
T8N R3W S6 NW NW
Jefferson County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Barry M. Potter 09-28-90
Name Date

Diane M. Potter 9/28/90
Witness Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

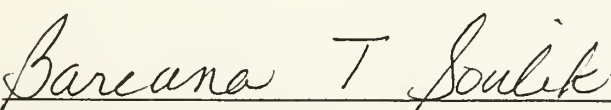
Clancy Mining District
Superior Site #15-26
T8N R3W S6 SW NW
Jefferson County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.


Name _____ Date 10/26/90


Witness _____ Date 10/28/90

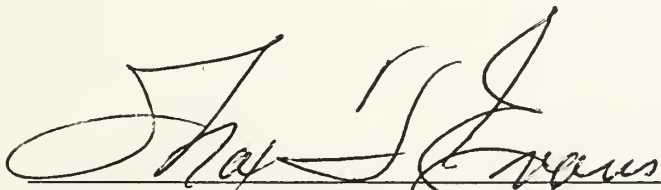
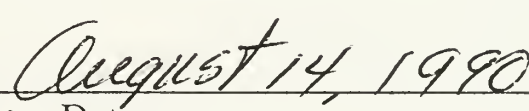
I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

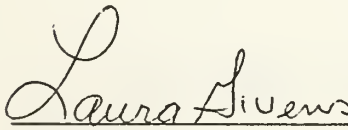
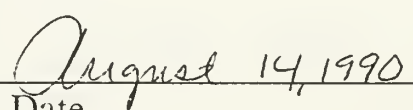
Colorado Mining District
Bluestone Site #3-2
T7N R4W S18 SE SW
Jefferson County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

 
Name V. Phil Evans U.S. ENERGY CORP. Date

 
Witness Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Colorado Mining District
Lake Site #8-9
T7N R4W S14 NW SW
Jefferson County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Margaret B. Dugan 8/2/90
Name Date

Edythe Crouse 8-2-90
Witness Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Colorado Mining District
Salvail Site #15-17
T7N R4W S19 NE NE
Jefferson County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Name John S. Egan Date 11/20/90
Director:
Community Affairs

Witness _____ Date _____

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Colorado Mining District
NE NE Section 29 Site #11-12
T7N R4W S29 NE NE
Jefferson County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Wm. L. Ly for Montana Tunnel Mining Inc 1-16-91
Name Date

Nancy J. Krauss 1-16-91
Witness Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Blue Cloud Mining District
Dandy Patented Claim (Looby Site) #13-2
T10 R4W S16 NW
Lewis & Clark County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

RV Ranch for Engen July 31
Name Date

Joe Cant 7/31/90
Witness Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Blue Cloud Mining District
Looby (Consolidated) Site #13-24
T10N R4W S16 NW
Lewis & Clark County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Carl W. Jensen 8/7/90
Name Date

Richard Pambro 8/7/90
Witness Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Blue Cloud Mining District
Stemwinder Site #9-21, #9-22
T10 R4W S17 SW NW
Lewis & Clark County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Robert A. Clemons
Name

27 July 1980
Date

Jack Luntz
Witness

27 July 1980
Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Blue Cloud Mining District
Stemwinder Site #9-17
T10N R4W S17 SW NW
Lewis & Clark County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Garuth Glanzman	7/31/90
Name	Date

Witness	Date
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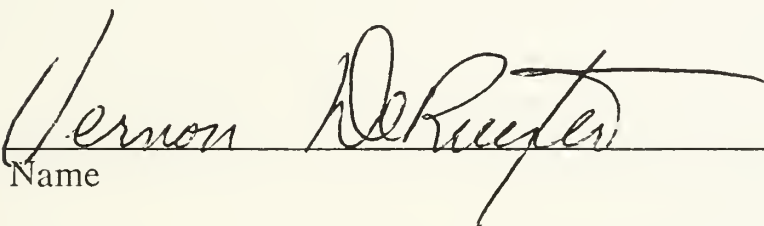
I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

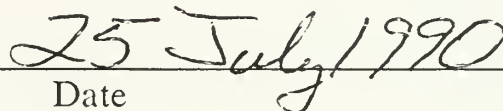
Helena Mining District
NE SE Section 8 Site #7-24, #7-25
T9N R4W S8 NE SE
Lewis & Clark County, MT

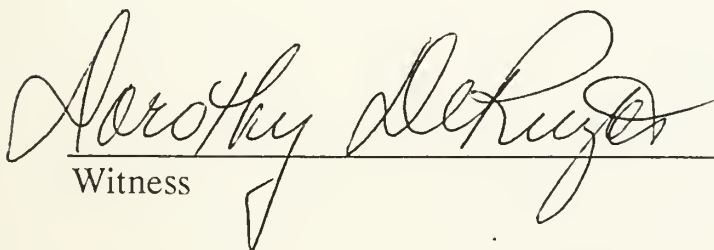
These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

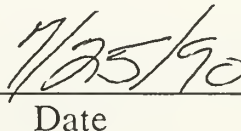
The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.


Name


Date


Witness


Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Helena Mining District
NE SW Section 36 Site #8-26/#8-28
T10N R4W S36 NE SW
Lewis & Clark County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Nordon M. Tracy 7-23-90
Name Date

David Krazer 7/23/90
Witness Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Helena Mining District
Park City Site #10-39, #10-40
T9N R4W S16 SE NW
Lewis & Clark County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

William E. Sneader July 26-1990
Name Date

Mary O. Drey July 26-1990
Witness Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Scratchgravel Mining District
Ariadene Site #1-1/#1-3
Carbonate Site #2-4, #2-5
NE SW Section 36 Site #6-26
Tavo Site #14-44
T11N R4W S36 SW
Lewis & Clark County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Darryl Ann Mangler 7-25-90
Name Date

Vincent O. Cope 7-25-90
Witness Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Scratchgravel Mining District
Eagle Site #3-12, #3-13, #3-15, #3-16
T11N R4W S34 SW SW
Lewis & Clark County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Arthur M. Fredriksen 7/23/90
Name Date

Lonna Fredriksen 7/23/90
Witness Date

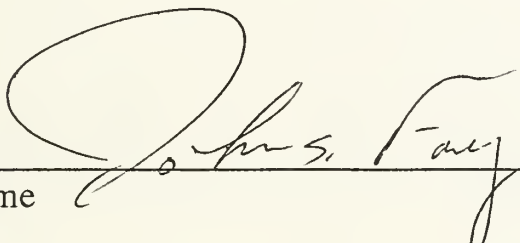
I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

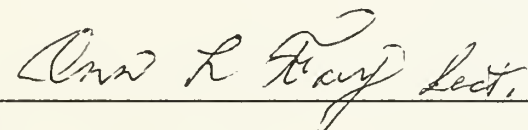
Scratchgravel Mining District
Franklin Site #18-47, #18-48
T10N R4W S11 SE NW
Lewis & Clark County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

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I certify that I have read, understand, and concur with the statements made on this page.

 John S. Fay 2nd Vice Pres August 9th 1990
Name Date

 Ann R. Fay Sect. August 9, 1990
Witness Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Scratchgravel Mining District
NE SW Section 26 Site #15-23
T11N R4W S26 NE SW
Lewis & Clark County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

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I certify that I have read, understand, and concur with the statements made on this page.

Beatrice A. Brazil July 24, 1990
Name Date

Witness Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Scratchgravel Mining District
SE NE Section 35 Site #7-29/#7-34, #7-51
T11N R4W S35 SE NE
Lewis & Clark County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

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I certify that I have read, understand, and concur with the statements made on this page.

Arcil L Jackson 7-30-90
Name Date

Betty L. Gannon 7-30-90
Witness Date

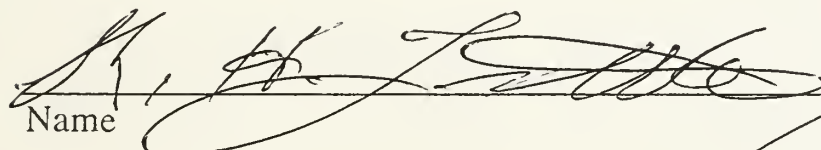

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

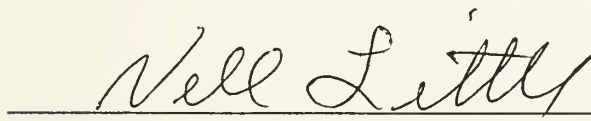
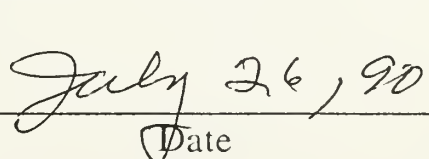
Scratchgravel Mining District
SE NE Section 35 Site #7-29/#7-34, #7-51
T11N R4W S35 SE NE
Lewis & Clark County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

 
Name Date

 
Witness Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Scratchgravel Mining District
SE SE Section 35 Site #9-36
T11N R4W S35 SE SE
Lewis & Clark County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Ronald B. Zook

Name

7/31/90

Date

Witness

Date

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Georgetown Mining District
Bob Evans Site #8-13
Twilight Site #7-12
T5N R13W S4 NW NE
Deer Lodge County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Steve D. Lane Jr. 8/14/90
Name Date

Rita Lane 8/14/90
Witness Date

Thank you for a Job. well Done.

I hereby acknowledge receipt of the keys to the locks on the access culverts, cable nets, adit doors/gates or grates installed at the following abandoned mine project sites:

Blue Eyed Nellie Mining District
Boomerang Site #21-51
T5N R12W S14 NW NE
Bonita Site #20-50
T5N R12W S11 SE SW
Deer Lodge County, MT

These protective measures were installed by the Montana Department of State Lands, Abandoned Mine Reclamation Bureau, at the landowner's request, so that future access to the underground workings would be possible.

The Department of State Lands and its contractors make no warranties, either expressed or implied, concerning the safety or useability of the underground mine workings of the sites mentioned above. The undersigned understands that entry into the underground mine workings without provision for proper air is the responsibility of the undersigned.

I certify that I have read, understand, and concur with the statements made on this page.

Nova Gold Corp.
By James C. Miller
Name

8/20/90
Date

Witness

Date

APPENDIX D

CHANGE ORDERS AND WORK DIRECTIVES

2.12 CHANGE ORDER

Order No. 1

Date: June 8, 1990

Agreement Date: Aug. 2, 1989

NAME OF PROJECT: Hazardous Mine Opening Project Phase 25, Project 26, Jefferson and Lewis and Clark County, Montana A/E 89-46-106

OWNER: Department of State Lands

CONTRACTOR: Scott Construction

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES ESTIMATED QUANTITIES & UNITS	COST OF CHANGES				TOTAL UNIT COST	TOTAL COST
		MATERIALS	LABOR	EQUIPMENT	MISCELLANEOUS		
	Work Directive No. 1						
	Adit Door (Add 1)					1000.00	1000.00
	Work Directive No. 2						
	Cable Net (Delete 1)					875.00	-875.00
	Culvert (Add 1)					1400.00	1400.00
	Work Directive No. 3						
	Fabricate and install additional grate sections				240.76		240.76
	Work Directive No. 4						
	Backfill (Add 526 cy)					4.25	2235.50
	Work Directive No. 5						
	Cable Net (Delete 1)					875.00	-875.00
	Culvert (Add 1)					1400.00	1400.00
	Work Directive No. 6						
	Backfill (Add 68.5)					4.25	291.13
TOTAL COST - MATERIALS, LABOR, EQUIPMENT & MISCELLANEOUS _____							
OVERHEAD & PROFIT @ _____ % _____							
GRAND TOTAL - THIS CHANGE ORDER <u>4,817.39</u>							

Original Contract Price	<u>174,300.00</u>
Current Contract Price Adjusted by Previous Order	<u>-0-</u>
Cost This Change Order (+ or -)	<u>4,817.39</u>
New Contract Price Including This Change Order	<u>179,117.39</u>

The completion date as set forth in the Contract Documents shall be (unchanged, increased, decrease) by 4 ½ calendar days.

The date for completion of all work will be July 5, 1990.

Description and Justification for Change:

1. Alhambra Mining District, Katie Site, No. 10-16: Install adit door. Reclamation consent was not received prior to Phase 26 bidding. See Work Directive No.1 dated September 18, 1989.
2. Alhambra Mining District, Argonaut Site, No. 2-5: Delete 1 cable net and install 1 culvert. Dan Dahl requested that cable nets be substituted by installation of an adit culvert. See Work Directive No. 2 dated September 18, 1989.
3. Alhambra Mining District, Argonaut Site No. 2-3: Fabricate and install additional grate sections to steel grate system, to completely cover irregularities in the shape of the mine opening. Surface terrain and rock features prohibit installation of a larger steel grate. See Work Directive No. 3 dated September 21, 1989.
4. Clancy Mining District, Sterling Price Site, Nos. 14-32, 14-33, and 14-34: Backfill mine openings not previously inventoried with 202, 249 and 75 cubic yards respectively. See Work Directive No. 4, dated September 28, 1989.
5. Clancy Mining District, Superior Jubilee Site, No. 15-26: Delete 1 cable net and install 1 culvert. Adit portal consists of loose fractured rock. Cable net installation and cannot be performed effectively. See Work Directive No. 5 dated October 2, 1989.
6. Montana City Mining District, Faith/Hope and Grant Sites, Nos. 1-6 and 2-7: Backfill additional mine openings not previously inventoried with 27.8 and 40.7 cubic yards respectively. See Work Directive No. 6 dated October 2, 1989.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agrees that on or after execution of this consent, the penalty of the applicable Performance Bond or Bonds is hereby increased by _____ (\$ _____) (100% of the Change Order amount) and the penalty of the application Payment Bond or Bonds is hereby increased by _____ (\$ _____) (100% of the Change Order amount).

COUNTERSIGNED BY MONTANA SURETY
RESIDENT AGENT

By: _____
(Seal)

Recommended by: Jeremiah B. Bowser
Engineer

Accepted by: Patricia Scott
Contractor

Approved by: Greg Marshall
Owner

2.12 CHANGE ORDER

Order No. 2

Date: June 8, 1990

Agreement Date: Aug. 2, 1990

NAME OF PROJECT: Hazardous Mine Opening Project - Phase 25, Project 26, Jefferson and Lewis and Clark County, MONT A/E 89-46-106

OWNER: Department of State Lands

CONTRACTOR: Scott Construction

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES ESTIMATED QUANTITIES & UNITS	COST OF CHANGES				TOTAL UNIT COST	TOTAL COST
		MATERIALS	LABOR	EQUIPMENT	MISCELLANEOUS		
	<u>Work Directive No. 7</u>						
	Add Gate (Delete 1)					1000.00	(1000.00)
	Culvert (Add 1)					1400.00	1400.00
	<u>Work Directive No. 8</u>						
	Cable Nets (Delete 5)					875.00	(4375.00)
	Culverts (Add 5)					1400.00	7000.00
	<u>Work Directive No. 9</u>						
	Culverts (Add 7)					1400.00	9800.00
	Backfill (Add 26 cy)					4.25	110.50
	<u>Work Directive No. 10</u>						
	Backfill (Delete 27.8)					4.25	(118.25)
	Culvert (add 1)					1400.00	1400.00
	<u>Work Directive No. 11</u>						
	Farm Fence (Add 98 LF)					4.50	441.00
	Hazard Signs (Add 2)					25.00	50.00
	Culverts (Add 2)					1400.00	2800.00
	Steel Gate Systems (Add 1)					1950.00	1950.00
TOTAL COST - MATERIALS, LABOR, EQUIPMENT & MISCELLANEOUS _____							
OVERHEAD & PROFIT @ _____ % _____							
GRAND TOTAL - THIS CHANGE ORDER 19,458.35							

Original Contract Price	<u>174,300.00</u>
Current Contract Price Adjusted by Previous Order	<u>+ 4817.39</u>
Cost This Change Order (+ or -)	<u>+19,458.35</u>
New Contract Price Including This Change Order	<u>198,575.74</u>

The completion date as set forth in the Contract Documents shall be (unchanged, increased, decrease) by 19 ½ calendar days.

The date for completion of all work will be July 24, 1990.

Description and Justification for Change:

1. Clancy Mining District, OK Site, No. 5-13: Delete 1 Adit Gate and install 1 culvert. The portal is located under a tilted layer of fractured rock resulting in walls that are not capable of properly supporting an adit gate. See Work Directive No.7 dated October 6, 1989.
2. Helena Mining District, Daylight, Twilight and SWNW Section 11 Sites, Nos. 17-10, 12-42, 12-43, 12-44 and 2-55: Delete 5 cable nets and install 5 culverts. The adit portals at these mine openings consist of loose fractured rock and soil. Installation of cable net rock bolts cannot be performed effectively. See Work Directive No. 8 dated October 10, 1989.
3. Helena Mining District, SWNW Section 11, Daylight, Bludbird, and Twilight Sites, Nos. 12-69, 12-70, 17-71, 17-72, 4-61, 4-62, 2-73 and 2-74: Install 7 culverts and 26 cubic yards of backfill (at 4-62) to eliminate previously unknown hazards. See Work Directive No. 9 dated October 10, 1989.
4. Helena Mining District, Golden Site No. 6-11: Delete 27.8 cubic yards of backfill and add 1 culvert. Mr. Zickerman of Ardic Exploration and Development, Ltd. requested that no backfill be performed. Installation of culverts are acceptable. See Work Directive No. 10 dated October 10, 1989.
5. Helena Mining District, Arrastra Gulch Site, Nos. 1-63, 1-64, 1-65, 1-66: Add 98 lineal feet of farm fencing and 1 Hazard Signs at 1-63 (shaft 4 x 5 x 12); a 16 x 16 steel grate system at 1-64 (shaft 8 x 12 x ?); and 2 culverts at 1-65 and 1-66 (adit 4 x 5 x ? and adit 4 x 5 x ?) to eliminate four previously unknown hazards. See Work Directive No. 11 dated October 13, 1989.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agrees that on or after execution of this consent, the penalty of the applicable Performance Bond or Bonds is hereby increased by _____ (\$ _____)(100% of the Change Order amount) and the penalty of the application Payment Bond or Bonds is hereby increased by _____ (\$ _____)(100% of the Change Order amount).

COUNTERSIGNED BY MONTANA SURETY
RESIDENT AGENT

By: _____
(Seal)

Recommended by: Jeremiah B. Brouser
Engineer

Accepted by: Patti Scott
Contractor

Approved by: Larry Marshall
Owner

2.12 CHANGE ORDER

Order No. 3

Date: June 8, 1990

Agreement Date: Aug. 2, 1990

NAME OF PROJECT: Hazardous Mine Openings Project - Phase 25, Project 26, Jefferson and Lewis and Clark County, MT A/E 89-46-106

OWNER: Department of State Lands

CONTRACTOR: Scott Construction

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

M	DESCRIPTION OF CHANGES ESTIMATED QUANTITIES & UNITS	COST OF CHANGES				TOTAL UNIT COST	TOTAL COST
		MATERIALS	LABOR	EQUIPMENT	MISCELLANEOUS		
	<u>Work Directive No. 12</u>						
	Lock (Delete 1)				(9.70)		(9.70)
	Adit Door (Add 1)					1000.00	1000.00
	Cable Net (Delete 1)					875.00	(875.00)
	Culvert (Add 1)					1400.00	1400.00
	<u>Work Directive No. 13</u>						
	Cable Nets (Delete 3)					875.00	(2625.00)
	Culverts (Add 4)					1400.00	5600.00
	<u>Work Directive No. 14</u>						
	Cable Nets (Delete 3)					875.00	(2625.00)
	<u>Work Directive No. 15</u>						
	Steel Grate System (Add 1)					1950.00	1950.00
	<u>Work Directive No. 16</u>						
	Farm Fence (Add 284 LF)					4.50	1278.00
	Hazard Signs (Add 2)					25.00	50.00
TOTAL COST - MATERIAL, LABOR, EQUIPMENT & MISCELLANEOUS							
OVERHEAD & PROFIT @ _____ %							
GRAND TOTAL - THIS CHANGE ORDER				5,143.30			

Original Contract Price	<u>174,300.00</u>
Current Contract Price Adjusted by Previous Order	<u>+ 24,275.74</u>
Cost This Change Order (+ or -)	<u>+ 5,143.30</u>
New Contract Price Including This Change Order	<u>203,719.04</u>

The completion date as set forth in the Contract Documents shall be (unchanged, increased, decrease) by 7 calendar days.

The date for completion of all work will be July 31, 1990.

Description and Justification for Change:

1. Blue Cloud Mining District, Silver Coin Site, Nos. 11-8 and 11-13: Delete 1 lock and install 1 adit gate at 11-8. The existing wood door has deteriorated to a point where use of this door is not feasible. Delete 1 cable net and install 1 culvert at 11-13. The portal consists of loose fractured rock and soil, and installation of a cable net cannot be performed effectively. See Work Directive No. 12 dated October 24, 1989.
2. Scratchgravel Mining District, NE SW Section 26 and SE NE Section 35 Sites, Nos. 15-24, 15-25, 7-33 and 7-51: Delete 3 cable nets and install 3 culverts 15-24, 15-25 and 7-33. The adit portals consist of loose fractured rock and soil. Installation of cable nets cannot be performed effectively. Install 1 culvert at 7-51, a previously unknown hazard. See Work Directive No. 13 dated October 30, 1989.
3. Helena Mining District, NE NE Section 16 Site, Nos. 18-15, 18-16 and 18-17: Delete 3 cable nets. The owner has performed reclamation work at his own expense. See Work Directive No. 14 dated November 10, 1989.
4. Blue Cloud Mining District, Looby Site, No. 13-24: Install 1 steel grate system at a previously unknown hazard at a site which "Consent for Right of Entry" was only recently obtained. See Work Directive No. 15 dated November 1, 1989.
5. Alhambra Mining District, Stiles Site, No. 11-17: Install 284 lineal feet of farm fencing and 2 Hazard Signs at an adit and shaft to eliminate two previously unknown hazardous mine openings. See Work Directive No. 16 dated December 15, 1989.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agrees that on or after execution of this consent, the penalty of the applicable Performance Bond or Bonds is hereby increased by _____ (\$ _____) (100% of the Change Order amount) and the penalty of the application Payment Bond or Bonds is hereby increased by _____ (\$ _____) (100% of the Change Order amount).

COUNTERSIGNED BY MONTANA SURETY
RESIDENT AGENT

By: _____
(Seal)

Recommended by: Jeremiah B. Boussee
Engineer

Accepted by: Patricia Scott
Contractor

Approved by: Larry Marshall
Owner

2.12 CHANGE ORDER

Order No. 4

Date: July 27, 1990

Agreement Date: Aug. 2, 1990

NAME OF PROJECT: Hazardous Mine Openings Project - Phase 25, Project 26, Jefferson and Lewis and Clark County, MT A/E 89-46-106

OWNER:Department of State Lands

CONTRACTOR: Scott Construction

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES ESTIMATED QUANTITIES & UNITS	COST OF CHANGES				TOTAL UNIT COST	TOTAL COST
		MATERIALS	LABOR	EQUIPMENT	MISCELLANEOUS		
	<u>Work Directive No. 17</u>						
	Steel Grate System (Add 1)					1950.00	1950.00
	Adit Door (Add 1)					1000.00	1000.00
	Cable Net (Delete 3)					875.00	(2625.00)
	Culvert (Add 2)					1400.00	2800.00
	<u>Work Directive No. 18</u>						
	Cable Nets (Delete 1)					875.00	(875.00)
	Culverts (Delete 1)					1400.00	(1400.00)
	Blast (Add 1)					500.00	500.00
	Cable Nets (Add 1)					875.00	875.00
	<u>Work Directive No. 19</u>						
	Cable Nets (Delete 2)					875.00	(1750.00)
	Culverts (Add 2)					1400.00	2800.00
	<u>Work Directive No. 20</u>						
	Steel Grate System (Add 1)					1950.00	1950.00
	Backfill (Add 220 c.y.)					4.25	935.00
	<u>Work Directive No. 21</u>						
	Backfill (Add 321 c.y.)					4.25	1364.25
	Blast (Add 1)					500.00	500.00
	Backfill (Delete 14 c.y.)					4.25	(59.50)
TOTAL COST - MATERIAL, LABOR, EQUIPMENT & MISCELLANEOUS							
OVERHEAD & PROFIT @ _____ %							
GRAND TOTAL - THIS CHANGE ORDER							

Original Contract Price	<u>174,300.00</u>
Current Contract Price Adjusted by Previous Order	<u>+29,419.04</u>
Cost This Change Order (+ or -)	<u>+10,764.75</u> + 7964.75
New Contract Price Including This Change Order	<u>214,483.79</u> 211,683.79

The completion date as set forth in the Contract Documents shall be (unchanged, increased, decrease) by 7 calendar days.

The date for completion of all work will be August 7, 1990.

Description and Justification for Change:

1. Scratchgravel District/SE NE Section 35 Site #7-32 and #7-35 and Blue Cloud (BC) District/SW NW Section 17 Site #19-17 and BC/Looby Site #13-24: Delete 3 cable nets and add 2 culverts at #7-35 & #9-17 and add 1 adit door at #7-32. The adit portals consist of loose fractured rock and soil, and installation of cable nets cannot be performed effectively. Add 1 steel grate at #13-2, a previously unknown hazard. See Work Directive No. 17 dated June 20, 1990.
2. Scratchgravel (SG) District/NE SW Section 26 Site #15-22 and SG/Carbonate Site #2-5: Delete 1 culvert at #15-22 and add 1 cable net. This change was requested by the landowner to preserve a mineral outcrop at the portal. Delete 1 cable net at #2-5 and add 1 blast. Installation of cable net rock bolts cannot be performed effectively and the landowner agreed to blasting. See Work Directive No. 18 dated June 21, 1990.
3. Helena (HLN) District/NW SW Section 8 Site #17-24 and HLN/SW NW Section 11 Site #12-60: Delete 2 cable nets and add 2 culverts. The adit portals consist of loose fractured rock and soil, and installation of cable nets cannot be performed effectively. See Work Directive No. 19 dated June 21, 1990.
4. Helena (HLN) District/Daylight Site #17-75 and HLN/NW SW Section 4 Site #9-67 and #9-68: Add one steel grate system at a previously unknown hazard at #17-75. Add 220 cubic yards of backfill to eliminate previously unknown hazards at #9-67 and #9-68. See Work Directive No. 20 dated June 21, 1990.
5. Scratchgravel (SG) District/Lovely Site #19-52, SG/Babcock Site #20-53 & SG/Pearson Site #21-54, Blue Cloud District/Looby #13-25 & #13-26 and Clancy District/SE NW Section 30 Site #18-16: Add 321 cubic yards of backfill to eliminate five previously unknown hazards at #19-52, #20-53, #21-54, #13-25 and #13-26. Delete 14 cubic yards of backfill and add one blast at #8-16 to eliminate a hazard not accessible to construction equipment. See Work Directive No. 21 dated July 27, 1990.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agrees that on or after execution of this consent, the penalty of the applicable Performance Bond or Bonds is hereby increased by _____ (\$ _____) (100% of the Change Order amount) and the penalty of the application Payment Bond or Bonds is hereby increased by _____ (\$ _____) (100% of the Change Order amount).

COUNTERSIGNED BY MONTANA
RESIDENT AGENT

SURETY

By: _____
(Seal)

Recommended by: Jeremiah B. Bowser
Engineer

Accepted by: Patti Scott
Contractor

Approved by: Ray Marshall
Owner

2.12 CHANGE ORDER

Order No. 5
 Date: July 27, 1990
 Agreement Date: Aug. 2, 1989

NAME OF PROJECT: Hazardous Mine Openings Project - Phase 25, Project 26, Jefferson and Lewis and Clark County, MT A/E 89-46-106

OWNER: Department of State Lands

CONTRACTOR: Scott Construction

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES ESTIMATED QUANTITIES & UNITS	COST OF CHANGES				TOTAL UNIT COST	TOTAL COST
		MATERIALS	LABOR	EQUIPMENT	MISCELLANEOUS		
	Obtain 29 unassembled steel grate sections from Lou Morris' Birdseye fabrication yard and Andrew Skinner's construction yard. Transport and unload the grates at the Department of State Lands Central Land Office equipment yard.				1600.00		1600.00
TOTAL COST - MATERIAL, LABOR, EQUIPMENT & MISCELLANEOUS							
OVERHEAD & PROFIT @ _____ %							
GRAND TOTAL - THIS CHANGE ORDER							

Original Contract Price	<u>174,300.00</u>
Current Contract Price Adjusted by Previous Order	<u>+40,183.79</u>
Cost This Change Order (+ or -)	<u>+ 1,600.00</u>
New Contract Price Including This Change Order	<u>216,083.79</u>

The completion date as set forth in the Contract Documents shall be (unchanged, increased, decrease) by 1 calendar days.

The date for completion of all work will be August 8, 1990.

Description and Justification for Change:

1. The fabrication yard owner (Lou Morris) and construction contractor (Andrew Skinner) requested that the steel grate systems be removed from their premises.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agrees that on or after execution of this consent, the penalty of the applicable Performance Bond or Bonds is hereby increased by _____ (\$ _____) (100% of the Change Order amount) and the penalty of the application Payment Bond or Bonds is hereby increased by _____ (\$ _____) (100% of the Change Order amount).

COUNTERSIGNED BY MONTANA
RESIDENT AGENT

SURETY

By: _____

(Seal)

Recommended by: _____

Jeremiah B. Bower

Engineer

Accepted by: _____

Patti Scott

Contractor

Approved by: _____

Sam Marshall

Owner

2.12 CHANGE ORDER

Order No. 6Date: August 13, 1990Agreement Date: Aug. 2, 1989NAME OF PROJECT: Hazardous Mine Openings Project - Phase 25, Project 26, Jefferson and Lewis and Clark County, MT A/E 89-46-106OWNER: Department of State LandsCONTRACTOR: Scott Construction

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES ESTIMATED QUANTITIES & UNITS	COST OF CHANGES				TOTAL UNIT COST	TOTAL COST
		MATERIALS	LABOR	EQUIPMENT	MISCELLANEOUS		
	Mobilization (L/S)						370.00
	Steel Grate Systems (Add 4)					1950.00	7800.00
	Backfill (Add 336 c.y.)					4.25	1428.00
	Additional Miscellaneous Site Work (L/S)						82.00
GRAND TOTAL - THIS CHANGE ORDER					<u>9680.00</u>		

Original Contract Price 174,300.00Current Contract Price Adjusted by Previous Order + 38,983.79Cost This Change Order (+ or -) + 9,680.00New Contract Price Including This Change Order 222,963.79

The completion date as set forth in the Contract Documents shall be (unchanged, increased, decrease) by 8 calendar days.

The date for completion of all work will be August 16, 1990.

Description and Justification for Change:

1. Work covered in this change order constitutes reclamation of additional mine openings in Deer Lodge County which were identified during Hazardous Mine Opening (HMO) Project 25 as follows: Blue Eyed Nellie (BEN) District/Bonita site #20-5; Steel Grate System, BEN/Boomerang site #21-51; Steel Grate System, Georgetown (GEO) District/Twilight site #7-12; Steel Grate System, GEO/Bob Evans site #8-13; Steel Grate System, and Silver Lake District/Daly Gulch sites #26-40, and #26-41; Backfill. The HMO Project 25 contractor was unwilling to perform additional work at his contract unit prices.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agrees that on or after execution of this consent, the penalty of the applicable Performance Bond or Bonds is hereby increased by _____ (\$ _____) (100% of the Change Order amount) and the penalty of the application Payment Bond or Bonds is hereby increased by _____ (\$ _____) (100% of the Change Order amount).

COUNTERSIGNED BY MONTANA SURETY
RESIDENT AGENT

By: _____
(Seal)

Recommended by: Jeremiah B. Bowser
Engineer

Accepted by: Patti Scott, Pres
Contractor

Approved by: Laurey Marshall
Owner

2.12 CHANGE ORDER

Order No. 7
 Date: August 21, 1990
 Agreement Date: Aug. 2, 1990

NAME OF PROJECT: Hazardous Mine Openings Project - Phase 25, Project 26, Jefferson and Lewis and Clark County, MT A/E 89-46-106

OWNER: Department of State Lands

CONTRACTOR: Scott Construction

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES ESTIMATED QUANTITIES & UNITS	COST OF CHANGES				TOTAL UNIT COST	TOTAL COST
		MATERIALS	LABOR	EQUIPMENT	MISCELLANEOUS		
1	Backfill (Add 320 c.y.)					4.25	1360.00
	(Delete 360 c.y.)					4.25	-1530.00
2	Culvert (Add 1)					1400.00	1400.00
	Cable Net (Add 3)					875.00	2625.00
	(Delete 2)					875.00	-1750.00
3	Steel Grate (Delete 1)					1950.00	-1950.00
4	Signs (Add 8)					25.00	200.00
	Farm Fence (Add 1747 l.f.)					4.50	7861.50
	Backfill (Add 2307.8 c.y.)					4.25	9808.15
TOTAL COST - MATERIAL, LABOR, EQUIPMENT & MISCELLANEOUS							
OVERHEAD & PROFIT @ _____ %							
GRAND TOTAL - THIS CHANGE ORDER							18,024.65

Original Contract Price	<u>174,300.00</u>
Current Contract Price Adjusted by Previous Order	<u>48,663.79</u>
Cost This Change Order (+ or -)	<u>18,024.65</u>
New Contract Price Including This Change Order	<u>240,988.44</u>

The completion date as set forth in the Contract Documents shall be (unchanged, increased, decrease) by _____ calendar days.

The date for completion of all work will be August 16, 1990.

Description and Justification for Change:

1. Colorado District/Black Jack site #6-21 & #6-22, and Helena District/Humbolt site #19-13: Add 320 cubic yards of backfill to eliminate two previously unknown hazards at #6-21 & #6-22. Delete 360 cubic yards of backfill at #19-13 at the request of the landowner, who has performed reclamation work at his own expense.
2. Clancy (CLN) District/Delanie site #2-3, CLN/Morgan Gulch site #7-12, and Scratchgravel District/SE NE Section 35 site #7-55 & #7-56: Delete 1 cable net at #2-3 and add 1 - 5 foot diameter culvert. This change was requested by the landowner due to fractured rock at the adit portal and ease of access. Delete 1 cable net at #7-12 at the landowners request. Add 2 cable nets at #7-55 and #7-56 installed during November, 1989 at previously unknown hazardous openings. Add 1 cable net included in the reclamation list and omitted on the bid sheet due to miscount.
3. Delete 1 steel grate included on the bid sheet and omitted in the reclamation list due to miscount.
4. Add the following quantities: 8 owner provided signs, 1747 lineal feet of farm fence, and 2307.8 [12,406.0-(10,500-401.8)] cubic yards of backfill. The 401.8 cy figure was the total backfill quantity deleted by change order from the "Estimated Plan Quantity". Actual quantities installed/placed above the original estimates included in the bid package.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agrees that on or after execution of this consent, the penalty of the applicable Performance Bond or Bonds is hereby increased by * _____ (\$ 18,024.65-----) (100% of the Change Order amount) and the penalty of the application Payment Bond or Bonds is hereby increased by ** _____ (\$ 18,024.65-----) (100% of the Change Order amount).

COUNTERSIGNED BY MONTANA
RESIDENT AGENT

SURETY

William J. Brown
William J. Brown

TRANSAMERICA PREMIER INSURANCE COMPANY

By: [Signature]
(Seal)

Recommended by: Jeremiah B. Brown
Engineer

Accepted by: Patti Scott, Pres
Contractor

Approved by: Larry Marshall
Owner

* EIGHTEEN THOUSAND TWENTY FOUR THOUSAND AND 65/100 DOLLARS---

** EIGHTEEN THOUSAND TWENTY FOUR THOUSAND AND 65/100 DOLLARS---

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No. 1

PROJECT: Hazardous Mine Opening DATE OF ISSUANCE: Sept. 18, 1989
Project; Phase 25, Project 26
OWNER: Department of State Lands
Abandoned Mines Reclamation Bureau
Capitol Station
Helena, MT 59620
CONTRACTOR: Scott Construction, Inc. OWNER'S PROJECT NO. Mont A/E 89-46-106
P. O. Box 707
505 Lewis Ave ENGINEER: Chen-Northern, Inc.
East Helena, MT 59635
CONTRACT FOR: ENGINEER'S PROJECT NO. 89-3013.C

You are directed to proceed promptly with the following change(s): Install one (1) adit door in the ~~Alhambra~~/T8N R2W S17 NW, Katie portal, per request of landowner, Mr. Jim Haslip.

Description:

Purpose of Work Directive Change: Reclamation consent was not received prior to Project 26 bidding.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in Contract Price:

☒ Time and materials

☐ Unit Price

☐ Cost plus fixed fee

☐ Other _____

Method of determining change in Contract Price:

☐ Contractor's records

☐ Engineer's records

☐ Other _____

Estimated increase (decrease) in Contract Price: \$1,000.00.
If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Estimated increase (decrease) in Contract Price: \$ _____.
If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

RECOMMENDED BY:

Jeremiah B. Brasser
Engineer

AUTHORIZED BY:

James Marshall
Owner

ACCEPTED BY:

Patti Scott, Pres.
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

- THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No. 2

PROJECT: Hazardous Mine Opening DATE OF ISSUANCE: Sept. 18, 1989
Project; Phase 25, Project 26

OWNER: Department of State Lands
Abandoned Mines Reclamation Bureau
Capitol Station
Helena, MT 59620

CONTRACTOR: Scott Construction, Inc. OWNER'S PROJECT NO. Mont A/E 89-46-106
P. O. Box 707
505 Lewis Ave ENGINEER: Chen-Northern, Inc.
East Helena, MT 59635

CONTRACT FOR: ENGINEER'S PROJECT NO. 89-3013.C

You are directed to proceed promptly with the following change(s): Delete the cable net closure specified for Alhambra/Argonaut Site No. 2-5 and install one adit culvert.

Description:

Purpose of Work Directive Change: The landowner, Mr. Dan Dahl, requested that cable nets be substituted by installation of an adit culvert closure.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

☐ Time and materials Culvert \$1400
☒ Unit Price Cable Net -875
 Net Change 525
☐ Cost plus fixed fee
☐ Other _____

Method of determining change in
Contract Price:

☐ Contractor's records
☐ Engineer's records
☐ Other _____

Estimated increase (decrease) in
Contract Price: \$525.00.
If the change involves an
increase, the estimated amount is
not to be exceeded without further
authorization.

Estimated increase (decrease) in
Contract Price: \$_____.
If the change involves an
increase, the estimated amount is
not to be exceeded without further
authorization.

RECOMMENDED BY: Jeremiah B. Bowser AUTHORIZED BY: Henry Marshall
Engineer Owner

ACCEPTED BY: Ratti Scott, Pres
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No. 3

PROJECT: Hazardous Mine Opening
Project; Phase 25, Project 26

DATE OF ISSUANCE: Sept. 21, 1989

OWNER: Department of State Lands
Abandoned Mines Reclamation Bureau
Capitol Station
Helena, MT 59620

CONTRACTOR: Scott Construction, Inc.
P. O. Box 707
505 Lewis Ave
East Helena, MT 59635

OWNER'S PROJECT NO. Mont A/E 89-46-106

ENGINEER: Chen-Northern, Inc.

CONTRACT FOR:

ENGINEER'S PROJECT NO. 89-3013.C

You are directed to proceed promptly with the following change(s):
Fabricate and install additional grate sections to the steel grate system,
to cover the up hill subsidence, at the Alhambra/Argonaut Site No. 2-3.
Description:

Purpose of Work Directive Change: To completely cover irregularities in the
shape of this opening. Surface terrain and rock features prohibited
installation of a larger steel grate system.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or
Contract Time, any claim for a Change Order based thereon will involve one of the
following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

☐ Time and materials

☐ Unit Price

☐ Cost plus fixed fee

☒ Other Negotiated

Method of determining change in
Contract Price:

☐ Contractor's records

☐ Engineer's records

☐ Other _____

Estimated increase (decrease) in
Contract Price: \$240.76.

If the change involves an
increase, the estimated amount is
not to be exceeded without further
authorization.

Estimated increase (decrease) in
Contract Price: \$ _____.

If the change involves an
increase, the estimated amount is
not to be exceeded without further
authorization.

RECOMMENDED BY:

Jeremiah B. Bowser
Engineer

AUTHORIZED BY:

Tim Marshall
Owner

ACCEPTED BY:

Patti Scott, Pres

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No. 4

PROJECT: Hazardous Mine Opening
Project; Phase 25, Project 26

DATE OF ISSUANCE: Sept. 28, 1989

OWNER: Department of State Lands
Abandoned Mines Reclamation Bureau
Capitol Station
Helena, MT 59620

CONTRACTOR: Scott Construction, Inc.
P. O. Box 707
505 Lewis Ave
East Helena, MT 59635

OWNER'S PROJECT NO. Mont A/E 89-46-106

ENGINEER: Chen-Northern, Inc.

CONTRACT FOR:

ENGINEER'S PROJECT NO. 89-3013.C

You are directed to proceed promptly with the following change(s): Backfill three (3) additional openings in the Clancy District.

Description: Sterling Price Site Nos. 14-32, 14-33, and 14-34 to be backfilled with 202, 249, and 75 cubic yards, respectively.

Purpose of Work Directive Change: To eliminate hazards existing at this site that were previously not inventoried.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

☐ Time and materials

☒ Unit Price

☐ Cost plus fixed fee

☐ Other _____

Method of determining change in
Contract Price:

☐ Contractor's records

☐ Engineer's records

☐ Other _____

Estimated increase (decrease) in
Contract Price: \$2,235.50.
If the change involves an
increase, the estimated amount is
not to be exceeded without further
authorization.

Estimated increase (decrease) in
Contract Price: \$ _____.
If the change involves an
increase, the estimated amount is
not to be exceeded without further
authorization.

RECOMMENDED BY: Jeremiah B. Bower
Engineer

AUTHORIZED BY: Larry Marshall
Owner

ACCEPTED BY: Pat Scott, Pres
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 5

PROJECT: Hazardous Mine Opening Project DATE OF ISSUANCE: 10/02/89
Phase 25, Project 26
OWNER: Department of State Lands
(Name, Abandoned Mines Reclamation Bureau
Address) Capitol Station
Helena, MT 59620
CONTRACTOR: Scott Construction, Inc. OWNER'S PROJECT NO.: MONT A/E 89-46-106
P.O. Box 707, 505 Lewis Ave.
East Helena, MT 59635 ENGINEER:
CONTRACT FOR: ENGINEER'S PROJECT NO.: 89-3013.C

You are directed to proceed promptly with the following change(s): Change the reclamation plan from cable net to culvert at the Clancy District,

Description: Superior/Jubilee #15-26 site.

Purpose of Work Directive Change: Adit portal consists of loose fractured rock. Installation of cable net rock bolts is highly dangerous and cannot be performed effectively.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

- [] Time and Materials delete cable net (875.00)
[X] Unit Price add culvert 1,400.00
525.00
[] Cost Plus Fix Fee
[] Other _____

Method of determining change in
Contract Time:

- [] Contractor's Records
[] Engineer's Records
[] Other _____

Estimated increase (decrease) in
Contract Price: \$525.00. If
the change involves an increase, the
estimated amount is not to be exceeded
without further authorization.

Estimated increase (decrease) in
Contract Time: _____ days. If
the change involves an increase, the
estimated time is not to be exceeded
without further authorization. _____

RECOMMENDED BY: Jeremiah B. Bousier
Engineer

AUTHORIZED BY: Ray Marshall
Owner

ACCEPTED BY: Scott Construction
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 6

PROJECT: Hazardous Mine Opening Project DATE OF ISSUANCE: 10/02/89
Phase 25, Project 26
OWNER: Department of State Lands
(Name, Abandoned Mines Reclamation Bureau
Address) Capitol Station
Helena, MT 59620
CONTRACTOR: Scott Construction, Inc. OWNER'S PROJECT NO.: MONT A/E 89-46-106
P.O. Box 707, 505 Lewis Ave.
East Helena, MT 59635 ENGINEER:
CONTRACT FOR: ENGINEER'S PROJECT NO.: 89-3013.C

You are directed to proceed promptly with the following change(s): Backfill additional opening at Montana City District Faith/Hope Shaft #1-~~06~~ and Grant Adit #2-~~07~~.

Description: Shaft #1-~~06~~⁶ will require 27.8 c.y. and Adit #2-~~07~~⁷ will require 40.7 c.y. of Backfill

Purpose of Work Directive Change: To eliminate two previously unknown hazards.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

- [] Time and Materials
App. 68.5 c.y. @ 4.25/c.y. \$291.13
[X] Unit Price
[] Cost Plus Fix Fee
[] Other _____

Method of determining change in
Contract Time:

- [] Contractor's Records
[] Engineer's Records
[] Other _____

Estimated increase (decrease) in
Contract Price: \$291.13. If
the change involves an increase, the
estimated amount is not to be exceeded
without further authorization.

Estimated increase (decrease) in
Contract Time: _____ days. If
the change involves an increase, the
estimated time is not to be exceeded
without further authorization.

RECOMMENDED BY: Jeremiah B. Bowser
Engineer

AUTHORIZED BY: Larry Marshall
Owner

ACCEPTED BY: Scotty Pres
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, -SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 7

PROJECT: Hazardous Mine Opening Project DATE OF ISSUANCE: 10/06/89
Phase 25, Project 26
OWNER: Department of State Lands
(Name, Abandoned Mines Reclamation Bureau
Address) Capitol Station
Helena, MT 59620
CONTRACTOR: Scott Construction, Inc. OWNER'S PROJECT NO.: MONT A/E 89-46-106
P.O. Box 707, 505 Lewis Ave.
East Helena, MT 56935 ENGINEER: Chen-Northern, Inc.
CONTRACT FOR: ENGINEER'S PROJECT NO.: 89-3013.C

You are directed to proceed promptly with the following change(s): At the Clancy District OK Site #5-13, delete the adit gate and add a culvert.

Description:

Purpose of Work Directive Change: The adit portal is located under a tilted layer of fractured rock resulting in walls that are not capable of properly supporting an adit gate.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

- ☐ Time and Materials
delete adit gate (1,000.00)
☒ Unit Price add adit culvert 1,400.00
400.00
☐ Cost Plus Fix Fee
☐ Other _____

Method of determining change in
Contract Time:

- ☐ Contractor's Records
☐ Engineer's Records
☐ Other _____

Estimated increase (decrease) in
Contract Price: \$400.00. If
the change involves an increase, the
estimated amount is not to be exceeded
without further authorization.

Estimated increase (decrease) in
Contract Time: _____ days. If
the change involves an increase, the
estimated time is not to be exceeded
without further authorization.

RECOMMENDED BY: Jeremiah B. Brown
Engineer

AUTHORIZED BY: Lang Marshall
Owner

ACCEPTED BY: Peter Scott, Pres
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 8

PROJECT: Hazardous Mine Opening Project DATE OF ISSUANCE: 10/10/89
Phase 25, Project 26
OWNER: Department of State Lands
(Name, Abandoned Mines Reclamation Bureau
Address) Capitol Station
Helena, MT 59620
CONTRACTOR: Scott Construction, Inc. OWNER'S PROJECT NO.: MONT A/E 89-46-106
P.O. Box 707, 505 Lewis Ave.
East Helena, MT 59635 ENGINEER:
CONTRACT FOR: ENGINEER'S PROJECT NO.: 89-3013.C

You are directed to proceed promptly with the following change(s): At the Helena District Daylight, Twilight, and SWNW Section 11 Sites, change the reclamation plan at opening #'s 17-10, 12-42, 12-43, 12-44, and 2-55 from the cable net to culvert.

Description:

Purpose of Work Directive Change: The adit portal at these openings consists of loose fractured rock and soil. Installation of cable net rock bolts is dangerous and cannot be performed effectively.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

- ☐ Time and Materials
delete 5 cable nets (4,375.00)
☒ Unit Price add 5 culverts 7,000.00
2,625.00
☐ Cost Plus Fix Fee
☐ Other _____

Method of determining change in
Contract Time:

- ☐ Contractor's Records
☐ Engineer's Records
☐ Other _____

Estimated increase (decrease) in
Contract Price: \$2,625.00. If
the change involves an increase, the
estimated amount is not to be exceeded
without further authorization.

Estimated increase (decrease) in
Contract Time: _____ days. If
the change involves an increase, the
estimated time is not to be exceeded
without further authorization.

RECOMMENDED BY: Jeremiah B Bowser
Engineer

AUTHORIZED BY: _____
Owner

ACCEPTED BY: Scott Construction
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 9

PROJECT: Hazardous Mine Opening Project DATE OF ISSUANCE: 10/10/89
Phase 25, Project 26
OWNER: Department of State Lands
(Name, Abandoned Mines Reclamation Bureau
Address) Capitol Station
Helena, MT 59620
CONTRACTOR: Scott Construction, Inc. OWNER'S PROJECT NO.: MONT A/E 89-46-106
P.O. Box 707, 505 Lewis Ave.
East Helena, MT 59635 ENGINEER:
CONTRACT FOR: ENGINEER'S PROJECT NO.: 89-3013.C

You are directed to proceed promptly with the following change(s): At the Helena District SWNW Section 11, Bluebird and Twilight Sites, install culverts in additional opening #'s 12-46, 12-47, 12-48, 12-49, 4-61, 2-~~57~~?³ and 2-~~83~~?⁷ Install 26 c.y. of backfill in an additional opening at Bluebird #4-62.

Description:

Purpose of Work Directive Change: To eliminate eight previously unknown hazards.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

- ☐ Time and Materials
add 26 c.y. of backfill 110.50
☒ Unit Price add 7 culverts 9,800.00
9,910.50
☐ Cost Plus Fix Fee
☐ Other _____

Method of determining change in
Contract Time:

- ☐ Contractor's Records
☐ Engineer's Records
☐ Other _____

Estimated increase (decrease) in
Contract Price: \$9,910.50. If
the change involves an increase, the
estimated amount is not to be exceeded
without further authorization.

Estimated increase (decrease) in
Contract Time: _____ days. If
the change involves an increase, the
estimated time is not to be exceeded
without further authorization.

RECOMMENDED BY: Jeremiah B Bowser AUTHORIZED BY: Larry Marshall
Engineer Owner
ACCEPTED BY: Scott Scott Pres
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 10

PROJECT: Hazardous Mine Opening Project DATE OF ISSUANCE: 10/10/89
Phase 25, Project 26
OWNER: Department of State Lands
(Name, Abandoned Mines Reclamation Bureau
Address) Capitol Station
Helena, MT 59620
CONTRACTOR: Scott Construction, Inc. OWNER'S PROJECT NO.: MONT A/E 89-46-106
P.O. Box 707, 505 Lewis Ave.
East Helena, MT 59635 ENGINEER:
CONTRACT FOR: ENGINEER'S PROJECT NO.: 89-3013.C

You are directed to proceed promptly with the following change(s): At the Helena District Golden Site #6-11, delete 27.8 c.y. of backfill and install an adit culvert.

Description:

Purpose of Work Directive Change: Mr. Zickerman of Ardic Exploration and Development, Ltd. requested that no backfill be performed, installation of culverts are acceptable.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

- ☐ Time and Materials
delete 27.8 c.y. (118.15)
☒ Unit Price add culverts 1,400.00
1,281.85
☐ Cost Plus Fix Fee
☐ Other _____

Method of determining change in
Contract Time:

- ☐ Contractor's Records
☐ Engineer's Records
☐ Other _____

Estimated increase (decrease) in
Contract Price: \$1,281.85. If
the change involves an increase, the
estimated amount is not to be exceeded
without further authorization.

Estimated increase (decrease) in
Contract Time: _____ days. If
the change involves an increase, the
estimated time is not to be exceeded
without further authorization.

RECOMMENDED BY: Jermiah B. Browne
Engineer

AUTHORIZED BY: Loring Marshall
Owner

ACCEPTED BY: Patti Scott, Pres
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 11

PROJECT: Hazardous Mine Opening Project DATE OF ISSUANCE: 10/13/89
Phase 25, Project 26
OWNER: Department of State Lands
(Name, Abandoned Mines Reclamation Bureau
Address) Capitol Station
Helena, MT 59620
CONTRACTOR: Scott Construction, Inc. OWNER'S PROJECT NO.: MONT A/E 89-46-106
P.O. Box 707, 505 Lewis Ave.
East Helena, MT 59635 ENGINEER:

CONTRACT FOR: ENGINEER'S PROJECT NO.: 89-3013.C

You are directed to proceed promptly with the following change(s): At the Helena District Arrastra Gulch Site, add 98 lineal feet and two signs, a 16 x 16 grate, and two culverts at additional opening #1-~~063~~ shaft 4 x 5 x 12, #1-~~064~~ shaft 8 x 12 x ?, #1-~~065~~ adit 4 x 6 x ?, and #1-~~066~~ adit 4 x 5 x ?.

Description:

Purpose of Work Directive Change: To eliminate four previously unknown hazards.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

Method of determining change in
Contract Time:

☐ Time and Materials
add 98 LF of fence @ 4.50/LF 441.00

☐ Contractor's Records

☒ Unit Price add 2 signs @ 25/ea 50.00
add 1 grate @ 1,950/ea 1,950.00
add 2 culverts @ 1,400/ea 2,800.00

☐ Engineer's Records

☐ Cost Plus Fix Fee

☐ Other _____

☐ Other _____

Estimated increase (decrease) in
Contract Price: \$5,241.00. If
the change involves an increase, the
estimated amount is not to be exceeded
without further authorization.

Estimated increase (decrease) in
Contract Time: _____ days. If
the change involves an increase, the
estimated time is not to be exceeded
without further authorization.

RECOMMENDED BY: Jeremiah B. Bourger
Engineer

AUTHORIZED BY: Larry Marshall
Owner

ACCEPTED BY: Patti Koteles
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 12

PROJECT: Hazardous Mine Opening Project DATE OF ISSUANCE: 10/24/89
Phase 25, Project 26
OWNER: Department of State Lands
(Name, Abandoned Mines Reclamation Bureau
Address) Capitol Station
Helena, MT 59620
CONTRACTOR: Scott Construction, Inc. OWNER'S PROJECT NO.: MONT A/E 89-46-106
P.O. Box 707, 505 Lewis Ave.
East Helena, MT 59635 ENGINEER:
CONTRACT FOR: ENGINEER'S PROJECT NO.: 89-3013.C

You are directed to proceed promptly with the following change(s): At the Blue Cloud District, Silver Coin Site, change the reclamation plan from lock to adit door at opening #11-8 and from cable net to culvert at opening #11-10.

Description:

Purpose of Work Directive Change: The existing wood door at opening #11-8 has deteriorated to a point at which use of this door is not feasible. The portal at opening #11-13 consists of loose fractured rock and soil. Installation of cable net rock bolts is highly dangerous and cannot be performed effectively.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

Method of determining change in
Contract Time:

☐ Time and Materials
delete cable net (875.00)
☒ Unit Price add culvert 1,400.00
add adit door 1,000.00
☐ Cost Plus Fix Fee delete lock (9.70)
1515.30
☐ Other _____

☐ Contractor's Records
☐ Engineer's Records
☐ Other _____

Estimated increase (decrease) in
Contract Price: \$1,515.30. If
the change involves an increase, the
estimated amount is not to be exceeded
without further authorization.

Estimated increase (decrease) in
Contract Time: _____ days. If
the change involves an increase, the
estimated time is not to be exceeded
without further authorization.

RECOMMENDED BY: Jeremiah B Bowser
Engineer

AUTHORIZED BY: Larry Marshall
Owner

ACCEPTED BY: Scott Prosser
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 13

PROJECT: Hazardous Mine Opening Project DATE OF ISSUANCE: 10/30/89
Phase 25, Project 26
OWNER: Department of State Lands
(Name, Abandoned Mines Reclamation Bureau
Address) Capitol Station
Helena, MT 59620
CONTRACTOR: Scott Construction, Inc. OWNER'S PROJECT NO.: MONT A/E 89-46-106
P.O. Box 707, 505 Lewis Ave.
East Helena, MT 59635 ENGINEER:
CONTRACT FOR: ENGINEER'S PROJECT NO.: 89-3013.C

You are directed to proceed promptly with the following change(s): At the Scratchgravel District NESW Section 26 and SENE Section 35 Sites, change the reclamation plan from cable net to culvert at opening #'s 15-24, 15-25, and 7-33. At the SENE Section 35 site, install a culvert at an additional opening #7-~~25~~51

Description:

Purpose of Work Directive Change: To eliminate a previously unknown hazard (#7-~~35~~)⁵¹. The adit portal at these openings consists of loose fractured rock and soil. Installation of cable net rock bolts is dangerous and cannot be performed effectively.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

- [] Time and Materials
delete 3 cable nets (2,625.00)
[X] Unit Price add 4 culverts 5,600.00
2,975.00
[] Cost Plus Fix Fee
[] Other _____

Method of determining change in
Contract Time:

- [] Contractor's Records
[] Engineer's Records
[] Other _____

Estimated increase (decrease) in
Contract Price: \$2,975.00. If
the change involves an increase, the
estimated amount is not to be exceeded
without further authorization.

Estimated increase (decrease) in
Contract Time: _____ days. If
the change involves an increase, the
estimated time is not to be exceeded
without further authorization.

RECOMMENDED BY: Jeremiah B. Bowers
Engineer

AUTHORIZED BY: Larry Marshall
Owner

ACCEPTED BY: Scott Scott
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 14

PROJECT: Hazardous Mine Opening Project DATE OF ISSUANCE: 11/10/89
Phase 25, Project 26
OWNER: Department of State Lands
(Name, Abandoned Mines Reclamation Bureau
Address) Capitol Station
Helena, MT 59620
CONTRACTOR: Scott Construction, Inc. OWNER'S PROJECT NO.: MONT A/E 89-46-106
P.O. Box 707, 505 Lewis Ave. ENGINEER:
East Helena, MT 59635
CONTRACT FOR: ENGINEER'S PROJECT NO.: 89-3013.C

You are directed to proceed promptly with the following change(s): Delete cable nets at the Helena District NENE Section 16 Site #'s 18-15, 18-16, and 18-17.

Description:

Purpose of Work Directive Change: The owner has performed reclamation work at his own expense.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

- ☐ Time and Materials
delete 3 cable nets (2,625.00)
☒ Unit Price
☐ Cost Plus Fix Fee
☐ Other _____

Method of determining change in
Contract Time:

- ☐ Contractor's Records
☐ Engineer's Records
☐ Other _____

Estimated increase (decrease) in
Contract Price: \$(2,625.00). If
the change involves an increase, the
estimated amount is not to be exceeded
without further authorization.

Estimated increase (decrease) in
Contract Time: _____ days. If
the change involves an increase, the
estimated time is not to be exceeded
without further authorization.

RECOMMENDED BY: Jeremiah B. Bourge
Engineer

AUTHORIZED BY: Larry Marshall
Owner

ACCEPTED BY: Patti Scott Pres
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 15

PROJECT: Hazardous Mine Opening Project DATE OF ISSUANCE: 11/01/89
Phase 25, Project 26
OWNER: Department of State Lands
(Name, Abandoned Mines Reclamation Bureau
Address) Capitol Station
Helena, MT 59620
CONTRACTOR: Scott Construction, Inc. OWNER'S PROJECT NO.: MONT A/E 89-46-106
P.O. Box 707, 505 Lewis Ave. ENGINEER:
East Helena, MT 59635
CONTRACT FOR: ENGINEER'S PROJECT NO.: 89-3013.C

You are directed to proceed promptly with the following change(s): Add reclamation for the new site, Faith-Hope/Looby, in the Blue Cloud District, as follows: install a grate at #13-243 x 4 x ? shaft.

Description:

Purpose of Work Directive Change: To eliminate a hazard in an area which consent for right of entry was only recently obtained.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in Contract Price:

☐ Time and Materials
 add 1 grate 1,950.00
☒ Unit Price
☐ Cost Plus Fix Fee
☐ Other _____

Method of determining change in Contract Time:

☐ Contractor's Records
☐ Engineer's Records
☐ Other _____

Estimated increase (decrease) in Contract Price: \$1,950.00. If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Estimated increase (decrease) in Contract Time: _____ days. If the change involves an increase, the estimated time is not to be exceeded without further authorization.

RECOMMENDED BY: Jeremiah B Bowser AUTHORIZED BY: Larry Marshall
Engineer Owner
ACCEPTED BY: Patti Scott, Pres
Contractor

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

Chen - Northern

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No. 16

PROJECT: Hazardous Mine Opening Project
Phase 25, Project 26

DATE OF ISSUANCE: 12/15/89

OWNER: Department of State Lands
(Name, Capitol Station
Address) Helena, MT 59620

CONTRACTOR: Scott Construction
P.O. Box 777
East Helena, MT 59635

OWNER'S PROJECT NO. Mont A/E 89-46-106

ENGINEER: Chen-Northern, Inc.

CONTRACT FOR:

ENGINEER'S PROJECT NO. 89-3013.C

You are directed to proceed promptly with the following change(s): ^(# 11-17) Install 284 lineal feet of fence and 2 signs at the new site named Styles in the Alhambra District. Per verbal directive on 10/4/89. Fencing will enclose one adit and one shaft.

Purpose of Work Directive Change: To eliminate two previously unknown hazardous openings.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

☒ Time and materials

☐ Unit Price Fence, 284 LF \$1,278.00
Signs, 2 EA 50.00

☐ Cost plus fixed fee \$1,328.00

☐ Other _____

Method of determining change in
Contract Price:

☐ Contractor's records

☒ Engineer's records

☐ Other _____

Estimated increase (decrease) in
Contract Price: \$ 1,328.00

If the change involves an
increase, the estimated amount is
not to be exceeded without further
authorization.

Estimated increase (decrease) in
Contract Price: \$ _____

If the change involves an
increase, the estimated amount is
not to be exceeded without further
authorization.

RECOMMENDED BY: Darwin B. Bowser
Engineer

AUTHORIZED BY: Gary Marshall
Owner

ACCEPTED BY: Scott
Contractor

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 17

PROJECT: Hazardous Mine Opening Project
Phase 25, Project 26

DATE OF ISSUANCE: 6/20/90

OWNER: Department of State Lands
Abandoned Mines Reclamation Bureau
Capitol Station
Helena, MT 59620

CONTRACTOR: Scott Construction, Inc.
P.O. Box 707, 505 Lewis Ave.
East Helena, MT 59635

OWNER'S PROJECT NO.: MONT A/E 89-46-106

ENGINEER: Chen-Northern, Inc.

CONTRACT FOR: Reclamation of hazardous mine openings

ENGINEER'S PROJECT NO.: 90-3121

You are directed to proceed promptly with the following change(s):

Description: Change the reclamation plan at the Scratchgravel District/SE NE Section 35 Site (#7-32 and #7-³⁴~~35~~) and the Blue Cloud District/SW NW Section 17 Site (#9-17) from cable net to culvert at #7-³⁴~~35~~ and #9-17 and from cable net to adit door at #7-32. Add a steel grate at #13-24 a previously unknown hazard at the Blue Cloud District/Looby Site.

Purpose of Work Directive Change: Adit portals consist of loose fractured rock. Installation of cable net rock bolts cannot be performed effectively. At #13-24 a previously unknown hazard will be eliminated.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

<input type="checkbox"/>	Time and Materials	
<input checked="" type="checkbox"/>	Unit Price	
	delete 3 cable nets	(\$2625.00)
	add 2 culverts	\$2800.00
	add 1 adit door	\$1000.00
	add 1 steel grate	<u>\$1950.00</u>
		\$3125.00
<input type="checkbox"/>	Other	

Method of determining change in
Contract Time:

<input type="checkbox"/>	Contractor's Records
<input type="checkbox"/>	Engineer's Records
<input type="checkbox"/>	Cost Plus Fix Fee
<input type="checkbox"/>	Other

Estimated increase (decrease) in Contract Price:
\$3125.00. If the change involves an increase,
the estimated amount is not to be exceeded
without further authorization.

Estimated increase (decrease) in Contract Time:
days. If the change involves an increase, the
estimated time is not to be exceeded without further
authorization.

RECOMMENDED BY: Jeremiah B. Bowser
Engineer
ACCEPTED BY: Patti Scott
Contractor

AUTHORIZED BY: Larry Marshall
Owner

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 18

PROJECT: Hazardous Mine Opening Project
Phase 25, Project 26

DATE OF ISSUANCE: 6/21/90

OWNER: Department of State Lands
Abandoned Mines Reclamation Bureau
Capitol Station
Helena, MT 59620

CONTRACTOR: Scott Construction, Inc.
P.O. Box 707, 505 Lewis Ave.
East Helena, MT 59635

OWNER'S PROJECT NO.: MONT A/E 89-46-106

ENGINEER: Chen-Northern, Inc.

CONTRACT FOR: Reclamation of hazardous mine openings

ENGINEER'S PROJECT NO.: 90-3121

You are directed to proceed promptly with the following change(s):

Description: Change the reclamation plan at the Scratchgravel District/NE SW Section 26 Site (#15-22) from culvert to cable net. Change the reclamation plan at the Scratchgravel District/Carbonate Site (#2-5) from cable net to blast.

Purpose of Work Directive Change: The adit portal at #2-5 consists of loose fractured rock. Installation of cable net rock bolts cannot be performed effectively so landowner agreed to blasting closure. At #15-22, the landowner requested a cable net closure be constructed to preserve the mineral outcropping displayed at the adit portal.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

☐ Time and Materials
☒ Unit Price
delete 1 culvert (\$1400.00)
delete 1 cable net (\$ 875.00)
add 1 blast \$ 500.00
add 1 cable net \$ 875.00
(\$ 900.00)

☐ Other

Estimated increase (decrease) in Contract Price:
(\$900.00). If the change involves an increase,
the estimated amount is not to be exceeded
without further authorization.

Method of determining change in
Contract Time:

☐ Contractor's Records
☐ Engineer's Records
☐ Cost Plus Fix Fee
☐ Other

Estimated increase (decrease) in Contract Time:
____ days. If the change involves an increase, the
estimated time is not to be exceeded without further
authorization.

RECOMMENDED BY: Jeremiah B. Brown
Engineer

AUTHORIZED BY: Larry Marshall
Owner

ACCEPTED BY: Patti Scott
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 19

PROJECT: Hazardous Mine Opening Project
Phase 25, Project 26

DATE OF ISSUANCE: 6/21/90

OWNER: Department of State Lands
Abandoned Mines Reclamation Bureau
Capitol Station
Helena, MT 59620

CONTRACTOR:
Scott Construction, Inc.
P.O. Box 707, 505 Lewis Ave.
East Helena, MT 59635

OWNER'S PROJECT NO.: MONT A/E 89-46-106

ENGINEER: Chen-Northern, Inc.

CONTRACT FOR:
Reclamation of hazardous mine openings

ENGINEER'S PROJECT NO.: 90-3133 - B

You are directed to proceed promptly with the following change(s):

Description: Change the reclamation plan at the Helena District/NW SW Section 8 Site (#7-24) and SW NW Section 11 Site (#12-60) from cable net to culvert.

Purpose of Work Directive Change: The adit portals consist of loose fractured rock. Installation of cable net rock bolts cannot be performed effectively.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

☐ Time and Materials
☒ Unit Price
delete 2 cable nets (\$1750.00)
add 2 culverts \$2800.00
\$1050.00

☐ Other

Estimated increase (decrease) in Contract Price:
\$1050.00. If the change involves an increase,
the estimated amount is not to be exceeded
without further authorization.

Method of determining change in
Contract Time:

☐ Contractor's Records

☐ Engineer's Records
☐ Cost Plus Fix Fee

☐ Other

Estimated increase (decrease) in Contract Time:
____ days. If the change involves an increase, the
estimated time is not to be exceeded without further
authorization.

RECOMMENDED BY: Jeremiah B. Brewer
Engineer

AUTHORIZED BY: Lang Maubell
Owner

ACCEPTED BY: Patti Scott
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplement instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be used.

B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER IF ANY, SHOULD BE CONSIDERED PROMPTLY.

SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 20

PROJECT: Hazardous Mine Opening Project
Phase 25, Project 26

DATE OF ISSUANCE: 6/21/90

OWNER: Department of State Lands
Abandoned Mines Reclamation Bureau
Capitol Station
Helena, MT 59620

CONTRACTOR: Scott Construction, Inc.
P.O. Box 707, 505 Lewis Ave.
East Helena, MT 59635

OWNER'S PROJECT NO.: MONT A/E 89-46-106

ENGINEER: Chen-Northern, Inc.

CONTRACT FOR: Reclamation of hazardous mine openings

ENGINEER'S PROJECT NO.: 90-3133 - B

You are directed to proceed promptly with the following change(s):

Description: At the Helena District/Daylight Site (#17-75) and NW SW Section 4 Site (#9-67 and #9-68) perform the following reclamation on additional hazardous mine openings; install a steel grate on #17-75 and backfill #9-67 and #9-68 with 187 c.y. and 33 c.y. of material, respectively.

Purpose of Work Directive Change: To eliminate three previously unknown hazardous mine openings.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

☐ Time and Materials
☒ Unit Price
add 220 c.y. backfill \$ 935.00
add 1 steel grate \$1950.00
\$2885.00

☐ Other

Estimated increase (decrease) in Contract Price:
\$2885.00. If the change involves an increase,
the estimated amount is not to be exceeded
without further authorization.

Method of determining change in
Contract Time:

☐ Contractor's Records

☐ Engineer's Records

☐ Cost Plus Fix Fee

☐ Other

Estimated increase (decrease) in Contract Time:
____ days. If the change involves an increase, the
estimated time is not to be exceeded without further
authorization.

RECOMMENDED BY: Jeremiah B. Bowser
Engineer

AUTHORIZED BY: E.E. Lang Marshall
Owner

ACCEPTED BY: Patsy Scott
Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

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B. COMPLETING THE WORK DIRECTIVE CHANGE FORM

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer completes the following:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Mark the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the change Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Mark the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

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SECTION II

2.11 WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No.: 21

PROJECT: Hazardous Mine Opening Project
Phase 25, Project 26

DATE OF ISSUANCE: 7/27/90

OWNER: Department of State Lands
Abandoned Mines Reclamation Bureau
Capitol Station
Helena, MT 59620

CONTRACTOR: Scott Construction, Inc.
P.O. Box 707, 505 Lewis Ave.
East Helena, MT 59635

OWNER'S PROJECT NO.: MONT A/E 89-46-106

ENGINEER: Chen-Northern, Inc.

CONTRACT FOR: Reclamation of hazardous mine openings

ENGINEER'S PROJECT NO.: 90-3133 - B

You are directed to proceed promptly with the following change(s):

Description: Backfill three additional openings in the Scratchgravel (SG) District and two openings in the Blue Cloud (BC) District. SG/Lovely #19-52, SG/Babcock #20-53, SG/Pearson #21-54, and BC/Looby #13-25 & #13-26 to be backfilled with 73, 37, 21, 146, and 44 cubic yards, respectively. In addition, change the reclamation plan from backfill to blast at the Clancy District/SE NW Section 30 site #8-16.

Purpose of Work Directive Change: To eliminate five previously unknown hazardous mine openings and to obstruct a mine opening not accessible to equipment.

Attachments: (list documents supporting change)

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in
Contract Price:

- ☐ Time and Materials
☒ Unit Price

add 321 c.y. backfill \$1364.25
add 1 blast \$ 500.00
delete 14 c.y. backfill (\$ 59.50)
\$1804.75

☐ Other

Method of determining change in
Contract Time:

☐ Contractor's Records

☐ Engineer's Records
☐ Cost Plus Fix Fee

☐ Other

Estimated increase (decrease) in Contract Price:
\$1804.75. If the change involves an increase,
the estimated amount is not to be exceeded
without further authorization.

Estimated increase (decrease) in Contract Time:
____ days. If the change involves an increase, the
estimated time is not to be exceeded without further
authorization.

RECOMMENDED BY: Jeremiah B. Bowser

Engineer

AUTHORIZED BY: ECP Gary Marshall

Owner

ACCEPTED BY: Portia Scott

Contractor

SECTION II

INSTRUCTIONS

A. GENERAL INFORMATION

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Once Engineer has completed and signed the form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed or final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

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APPENDIX E

**APPROVED PAYMENT REQUESTS,
CERTIFICATE OF SUBSTANTIAL COMPLETION AND
AFFIDAVIT ON BEHALF OF CONTRACTOR**

PAY REQUEST NO.1

FROM: August 23, 1989

TO: September 30, 1989

PROJECT NAME: Hazardous Mine Opening Project - Phase 25, Project 26

LOCATION: Jefferson and Lewis & Clark Counties, Montana PROJECT NO.: Mont A/E 89-46-106

NAME OF CONTRACTOR: Scott Construction ADDRESS: P.O. Box 777
East Helena, MT 59635

SUMMARY OR PROJECT STATUS

Amount of Original Contract	\$174,300.00
Amount of Approved Work Directive(s)	4,001.26
Amount of Approved Change Order(s)	-0-
TOTAL CONTRACT AMOUNT	\$178,301.26
Contract Time Used to Date	39 Days
Percentage of Contract Time Used	32.5%
Percentage of Contract Amount Earned <small>(TOTAL TO DATE ÷ TOTAL CONTRACT AMOUNT)</small>	29.9%

Original Contract Amount Completed	\$ 48,379.73
Work Directive(s) Amount Completed	4,879.26
TOTAL To Date	53,255.99
Times 90% =	47,930.39
TOTAL AMOUNT Earned To Date	47,930.39
Less Previous Amount Earned	-0-
Amount Payable This Period	47,930.39
Less 1% Gross Receipts Tax	479.30
TOTAL DUE CONTRACTOR THIS PERIOD	47,451.09

Requested By: Scott Construction

Patti Scott-Pru
(Contractor)

Date: 10-24-89

Checked By: Chen-Northern, Inc.

Jeremiah B. Bowser
(Engineer)

Date: 10/20/89

Approved By: Department of State Lands
Abandoned Mine Reclamation Bureau

Harry Marshall
(Owner)

Date: 10/30/89

APPROVED WORK DIRECTIVES
CHEN-NORTHERN, INC.

MONT A/E 89-46-106

ITEM NO.	DESCRIPTION	ESTIMATED PLAN QUANTITY	UNIT BID PRICE	UNITS OF WORK COMPLETED THIS REQUEST	UNITS OF WORK COMPLETED TO DATE	MATERIALS ON SITE	LESS MATERIALS INSTALLED	TOTAL COST OF COMPLETED WORK
2	Backfilling Mine Openings Work Directive No. 4	526	4.25	526	526			2,235.50
3	Blasting/Collapsing Openings		500.00					
4	Adit and Shaft Culverts Work Directive No. 2	1	1400.00	1	1			1,400.00
5	Cable Net Mine Closure		875.00					
6	Steel Gate Adit Door Work Directive No. 1	1	1000.00	1	1			1,000.00
7	Steel Grate Systems Work Directive No. 3		1950.00	1	1	Additional grate sections		240.76
8	Attaching Owner-Provided Signs		28.00					
9	Farm Fence (Type F-5)		4.00					
TOTAL WORK DIRECTIVES COMPLETED								4,876.26

PAY REQUEST NO.2

FROM: October 1, 1989

TO: November 30, 1989

PROJECT NAME: Hazardous Mine Opening Project - Phase 25, Project 26

LOCATION: Jefferson and Lewis & Clark Counties, Montana PROJECT NO.: Mont A/E 89-46-106

NAME OF CONTRACTOR: Scott Construction ADDRESS: P.O. Box 777
East Helena, MT 59635

SUMMARY OR PROJECT STATUS

Amount of Original Contract	\$174,300.00
Amount of Approved Work Directive(s)	28,996.04
Amount of Approved Change Order(s)	-0-
TOTAL CONTRACT AMOUNT	\$203,266.04
Contract Time Used to Date	79 Days
Percentage of Contract Time Used	66%
Percentage of Contract Amount Earned	68%

Original Contract Amount Completed	\$ 99,068.18
Work Directive(s) Amount Completed	39,746.89
TOTAL To Date	138,815.07
Times 90% =	124,933.56
TOTAL AMOUNT Earned To Date	124,933.56
Less Previous Amount Earned	47,930.39
Amount Payable This Period	77,003.17
Less 1% Gross Receipts Tax	770.03
TOTAL DUE CONTRACTOR THIS PERIOD	76,233.14

Requested By: Scott Construction

Scott Scott
(Contractor)

Date:

12-22-89

Checked By: Chen-Northern, Inc.

Jeremiah B Bowser
(Engineer)

Date:

12/28/89

Approved By: Department of State Lands

David Marshall
Abandoned Mine Reclamation Bureau (Owner)

Date:

1/3/90

PAY REQUEST NO. 2

CHEN-NORTHERN, INC.

PROJECT: Hazardous Mine Opening Project
Project 25, Phase 25

MONT A/E 89-46-106

ITEMIZATION OF QUANTITIES AND COSTS

ITEM NO.	DESCRIPTION	ESTIMATED PLAN QUANTITY	UNIT BID PRICE	UNITS OF WORK COMPLETED THIS REQUEST	UNITS OF WORK COMPLETED TO DATE	MATERIALS ON SITE	LESS MATERIALS INSTALLED	TOTAL COST OF COMPLETED WORK
1	Mobilization	1.0 LS	1,400.00	-0-	1	-0-	-0-	\$ 1,400.00
2	Backfilling Mine Openings	10500	4.25	2,027.4	6,603.1	-0-	-0-	28,063.18
3	Blasting/Collapsing Openings	20	500.00	3	4	-0-	-0-	2,000.00
4	Adit and Shaft Culverts	27	1,400.00	4	6	8,385.00	8,385.00*	8,400.00
4a	Installed without hatches - 80%		1,120.00	8	8	-0-	-0-	8,960.00
5	Cable Net Mine Closure	37	875.00	15	15	-0-	-0-	13,125.00
6	Steel Gate Adit Doors	2	1,000.00	0	1	-0-	-0-	1,000.00
7	Steel Grate Systems	16	1,950.00	5	12	-0-	-0-	23,400.00
8	Attaching Owner-Provided Signs	37	25.00	26	30	-0-	-0-	750.00
9	Farm Fence (Type F-5)	2550	4.50	2416	2660	-0-	-0-	11,970.00
10	Miscellaneous Site Work	1.0 LS	2,500.00	-0-	-0-	-0-	-0-	-0-
TOTAL								<u>99,068.18</u>

* Fourteen culverts paid for as "materials on site" on Pay Request No. 1 were utilized on Work Directive sites.

PAY REQUEST NO. 2

APPROVED WORK DIRECTIVES CHEN-NORTHERN, INC.

PROJECT: Hazardous Mine Opening Project
Phase 25, Project 26

MONT A/E 89-46-106

ITEMIZATION OF QUANTITIES AND COSTS

ITEM NO.	DESCRIPTION	ESTIMATED PLAN QUANTITY	UNIT BID PRICE	UNITS OF WORK COMPLETED THIS REQUEST	UNITS OF WORK COMPLETED TO DATE	MATERIALS ON SITE	LESS MATERIALS INSTALLED	TOTAL COST OF COMPLETED WORK
2	Backfilling Mine Openings		4.25					
	Work Directive No. 4	526		-0-	526			2,235.50
	Work Directive No. 5	68.5		68.5	68.5			291.13
	Work Directive No. 9	26		26	26			110.50
3	Blasting/Collapsing Openings		500.00					
4	Adit and Shaft Culverts		1400.00					
	Work Directive No. 2	1		-0-	1			1,400.00
	Work Directive No. 5	1		1	1			1,400.00
	Work Directive No. 7	1		1	1			1,400.00
	Work Directive No. 8	5		5	5			7,000.00
	Work Directive No. 9	7		6	6			8,400.00
	Work Directive No.10	1		1	1			1,400.00
	Work Directive No.11	2		2	2			2,800.00
	Work Directive No.12	1		1	1			1,400.00
	Work Directive No.13	4		4	4			5,600.00
5	Cable Net Mine Closure		875.00					
6	Steel Gate Adit Door		1000.00					
	Work Directive No. 1	1		-0-	1			1,000.00
	Work Directive No.12	1		-0-	-0-			
7	Steel Gate Systems		1950.00					
	Work Directive No. 3	1		-0-	1	Additional grate sections		240.76
	Work Directive No.11	1		1	1			1,950.00
7a	Installed without concrete - 67%							
	Work Directive No.15	1		1	1			1,300.00
8	Attaching Owner-Provided Signs		25.00					
	Work Directive No.11	2		2	2			100.00
	Work Directive No.16	2		2	2			100.00
9	Farm Fence (Type F-5)		4.50					
	Work Directive No.11	98		98	98			441.00
	Work Directive No.16	284		284	284			1,278.00

TOTAL WORK DIRECTIVES COMPLETED

39,746.89

PAYMENT REQUEST NO. 3

FROM November 30, 1989 TO August , 1990

PROJECT TITLE: Hazardous Mine Opening Project - Phase 25, Project 26

LOCATION: Jefferson and Lewis & Clark Counties, MT MONT A/E 89-46-106

DSL/AMRB: _____

NAME OF CONTRACTOR: Scott Construction ADDRESS: P.O. Box 777, East Helena, MT

CHANGE ORDERS			CONTRACT STATUS			
No.	Description	Amount	Total Amount	Completed Amount	Uncompleted Amount	Percent Complete
			240,988.44	240,988.44	0.00	100
TOTAL CHANGE ORDERS		66,688.44				
CONTRACT TO DATE INCLUDING CHANGE ORDERS <u>\$240,988.44</u>			COMPLETED TO DATE <u>\$240,988.44</u>			
*For use only when securities are on deposit in lieu of retainage.			PLUS MATERIALS ON SITE <u>\$ 0.00</u>			
TOTAL RETAINAGE \$ _____			TOTAL COMPLETED TO DATE <u>\$240,988.44</u>			
SECURITIES ON DEPOSIT \$ _____			LESS RETAINAGE <u>\$ 24,098.84</u>			
ADJUSTED RETAINAGE \$ _____			TOTAL AMOUNT EARNED TO DATE <u>\$216,889.60</u>			
			LESS PREVIOUS PAYMENTS <u>\$124,933.56</u>			
			AMOUNT DUE THIS PAYMENT <u>\$ 91,956.04</u>			
			LESS 1% TAX <u>\$ 919.56</u>			
			TOTAL DUE CONTRACT <u>\$ 91,036.48</u>			

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

Scott Construction Contractor DSL Owner

BY: Patti Scott, Pres BY: Larry Marshall

DATE: 9-14-90 DATE: 9/21/90

RECOMMENDED BY:

Chas - Northern, Inc Engineer

By: Jeremiah B. Bowser

Date: Sept. 14, 1990

ITEMIZATION OF QUANTITIES AND COSTS

Item	Description	Estimated Plan Quantity	Unit Price Bid	Units of Work Completed To Date	Total Cost of Complete Work	Percent Complete
1	Mobilization	1.0 LS	1400.00	1.0	1400.00	100
2	Backfilling Mine Openings	10500	4.25	12406.0	52,725.50	100
3	Blasting/Collapsing Openings	20	500.00	20	10,000.00	100
6	Adit and Shaft Culverts	27	1000.00	26	36,400.00	100
5	Cable Net Mine Closure	37	875.00	16	14,000.00	100
6	Steel Gate Adit Door	2	1000.00	1	1,000.00	100
7	Steel Grate Systems	16	1950.00	15	29,250.00	100
6	Attaching Owner Provided Signs	37	25.00	45	1,125.00	100
9	Farm Fence (Type R-5)	2550	4.50	4297	19,336.50	100
10	Miscellaneous Site Work	1.0 LS	2500.00	1.0	2,500.00	100
TOTAL					167,737.00	100

ITEMIZATION OF QUANTITIES AND COSTS

Item	Description	Estimated Plan Quantity	Unit Price Bid	Units of Work Completed To Date	Total Cost of Complete Work	Percent Complete
	Mobilization					1
	Change Order No. 6	L/S		370.00	370.00	100
	Backfilling Mine Openings		4.25			
	Change Order No. 1	594.5		594.5	2526.63	100
	Change Order No. 2	26.0		26.0	110.50	100
	Change Order No. 4	541.0		541.0	2299.25	100
	Change Order No. 6	336.0		336.00	1428.00	100
	Change Order No. 7	320.0		320.00	1360.00	100
	Blasting/Collapsing Openings		500.00			
	Change Order No. 7			2	1000.00	100
4	Adit and Shaft Culverts		1400.00			
	Change Order No. 1			2	1800.00	100
	Change Order No. 2	16		16	22400.00	100
	Change Order No. 3	5		5	7000.00	100
	Change Order No. 4	4		4	5600.00	100
	Change Order No. 1	1		1	1400.00	100
	Cable Net Mine Closure	1	875.00			
	Change Order No. 4	1		1	875.00	100
	Change Order No. 7	2		2	1750.00	100
9	Steel Gate Adit Door		1000.00	1	1	
	Change Order No. 1	1		1	1000.00	100
	Change Order No. 3	1		1	990.30	100
	Change Order No. 4			1	1000.00	100
	Steel Gate Systems	2	1950.00	1	1	
	Change Order No. 1	1		1	1950.00	100
	Change Order No. 2	1		1	240.76	100
	Change Order No. 3	1		1	1950.00	100
	Change Order No. 4	2		2	3900.00	100
	Change Order No. 5			1	1600.00	100
	Change Order No. 6			1	7800.00	100
4	Attaching Owner Provided Signs		25.00			
	Change Order No. 2	2		2	50.00	100
	Change Order No. 3	2		2	50.00	100
9	Farm Fence (Type F-5)		4.50	1	1	
	Change Order No. 2	98		98	441.00	100
	Change Order No. 3	284		284	1278.00	100
10	Miscellaneous Site Work					
	Change Order No. 6	L/S		82.00	82.00	100
TOTAL CHANGE ORDERS COMPLETED					73,251.44	100

FINAL PAY REQUEST PAYMENT REQUEST NO. 4

FROM November 30, 1989 TO August, 1990

PROJECT TITLE: Hazardous Mine Opening Project - Phase 25, Project 26

LOCATION: Jefferson and Lewis & Clark Counties, MT MONT A/E 89-46-106

DSL/AMRB: _____

NAME OF CONTRACTOR: Scott Construction ADDRESS: P.O. Box 777, East Helena, MT

CHANGE ORDERS			CONTRACT STATUS			
No.	Description	Amount	Total Amount	Completed Amount	Uncompleted Amount	Percent Complete
			240,988.44	240,988.44	0.00	100
TOTAL CHANGE ORDERS		66,688.44				
CONTRACT TO DATE INCLUDING CHANGE ORDERS <u>\$240,998.44</u>			COMPLETED TO DATE <u>\$240,988.44</u>			
*For use only when securities are on deposit in lieu of retainage.			PLUS MATERIALS ON SITE <u>\$ 0.00</u>			
TOTAL RETAINAGE \$ _____			TOTAL COMPLETED TO DATE <u>\$240,988.44</u>			
SECURITIES ON DEPOSIT \$ _____			LESS RETAINAGE (Final Request) <u>\$ 0.00</u>			
ADJUSTED RETAINAGE \$ _____			TOTAL AMOUNT EARNED TO DATE <u>\$240,988.44</u>			
			LESS PREVIOUS PAYMENTS <u>\$216,889.60</u>			
			AMOUNT DUE THIS PAYMENT <u>\$ 24,098.84</u>			
			LESS 1% TAX <u>\$ 240.99</u>			
			TOTAL DUE CONTRACT <u>\$ 23,857.85</u>			

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

BY: Scott Const
Contractor

BY: P.T. Lund
Owner

DATE: 9-26-90

DATE: 10/1/90

RECOMMENDED BY:

Chen-Northen
Engineer

By: Jeremiah B. Bowser

Date: Sept 26, 1990

ITEMIZATION OF QUANTITIES AND COSTS

Item	Description	Estimated Plan Quantity	Unit Price Bid	Units of Work Completed To Date	Total Cost of Complete Work	Percent Complete
1	Mobilization	1.0 LS	1400.00	1.0	1400.00	100
2	Backfilling Mine Openings	10500	4.25	12406.0	52,725.50	100
3	Blasting/Collapsing Openings	20	500.00	20	10,000.00	100
4	Adit and Shaft Culverts	37	1400.00	20	36,400.00	100
5	Cable Net Mine Closure	37	875.00	16	10,000.00	100
4	Steel Gate Adit Door	2	1300.00	1	1,000.00	100
7	Steel Grate Systems	16	1950.00	16	29,250.00	100
8	Attaching Owner Provided Signs	37	25.00	45	1,125.00	100
9	Farm Fence (Type F-5)	2550	4.50	4297	19,336.50	100
10	Miscellaneous Site Work	1.0 LS	2500.00	1.0	2,500.00	100
TOTAL					167,737.00	100

ITEMIZATION OF QUANTITIES AND COSTS

Item	Description	Estimated Plan Quantity	Unit Price Bid	Units of Work Completed To Date	Total Cost of Complete Work	Percent Complete
4	Mobilization					
	Change Order No. 6	L/S		370.00	370.00	100
2	Backfilling Mine Openings		4.25			
	Change Order No. 1	594.5		594.5	2526.63	100
	Change Order No. 2	26.0		26.0	110.50	100
	Change Order No. 4	541.0		541.0	2299.25	100
	Change Order No. 6	336.0		336.00	1428.00	100
	Change Order No. 7	320.0		320.00	1360.00	100
3	Blasting/Collapsing Openings		500.00			
	Change Order No. 4			2	1000.00	100
4	Adit and Shaft Culverts		1400.00			
	Change Order No. 4			2	2800.00	100
	Change Order No. 2	16		16	22400.00	100
	Change Order No. 3	5			7000.00	100
	Change Order No. 4	4		1	5600.00	100
	Change Order No. 7	1		1	1400.00	100
5	Cable Net Mine Closure		875.00			
	Change Order No. 4			1	875.00	100
	Change Order No. 7	2		2	1750.00	100
6	Steel Gate Adit Door		1000.00			
	Change Order No. 1	1		1	1000.00	100
	Change Order No. 4			1	900.30	100
	Change Order No. 4	1		1	1600.00	100
	Steel Gate Systems		1000.00			
	Change Order No. 1	1		1	1950.00	100
	Change Order No. 2				240.76	100
	Change Order No. 3	1		1	1950.00	100
	Change Order No. 4			2	3900.00	100
	Change Order No. 5	1		1	1600.00	100
	Change Order No. 6	4			3800.00	100
8	Attaching Owner Provided Signs		25.00			
	Change Order No. 2	2		2	50.00	100
	Change Order No. 3	1		1	50.00	100
9	Farm Fence (Type F-5)		4.50			
	Change Order No. 2	98		98	441.00	100
	Change Order No. 3	284		284	1278.00	100
10	Miscellaneous Site Work					
	Change Order No. 6	L/S		82.00	82.00	100
TOTAL CHANGE ORDERS COMPLETED					73,251.44	100

CERTIFICATE OF SUBSTANTIAL COMPLETION

TO: Montana Department of State Lands OWNER

PROJECT TITLE: Hazardous Mine Opening Project, Phase 25, Project 26

MONT A/E OR DSL-AMRB: 89-46-106

CONTRACT DATE: 9-26-88

LOCATION: Lewis & Clark County, Jefferson

County, Montana

PROJECT OR PART SHALL INCLUDE: _____

CONTRACTOR: Scott Construction, Inc.

ADDRESS: P.O. Box 707, 505 Lewis Ave

East Helena, MT 59635

TELEPHONE NO: 227-5740

SUBSTANTIAL COMPLETION DATE: 7-25-90

DSL INSPECTION DATE: 8-15-90

ENGINEER: Chen-Northern, Inc.

Jeremiah B. Bowser, P.E.

PERFORMANCE BOND NO.: TPI 01896930

DATE OF BOND: July 18, 1989

SURETY: Transamerica

MONTANA AGENT: James P. Watson

ADDRESS: Billings, MT

The Work performed under this Contract has been inspected by authorized representatives of the Owner, Contractor, and Engineer, and the Project (or specified part of the Project, as indicated above) is hereby declared to be substantially completed on the above date.

DEFINITION OF SUBSTANTIAL COMPLETION

The date of substantial completion of a project or specified area of a project is the date when the construction is sufficiently completed, in accordance with the contract documents, as modified by any change orders agreed to by the parties, so the Owner can occupy or utilize the project or specified area of the project for the use for which it was intended.

A tentative list of items to be completed is appended hereto. This list may not be exhaustive, and the failure to include an item on it does not alter the responsibility of the Contractor to complete all the Work in accordance with the Contract Documents.

ENGINEER:

Chen-Northern, Inc.
By Jeremiah B. Bowser 8/25/90
Authorized Representative Date

The Contractor accepts the above Certificate of Substantial Completion and agrees to complete and correct the items on the tentative list within the time indicated.

CONTRACTOR

Scott Construction, Inc.
By Robert Scott 8-17-90
Authorized Representative Date

The Owner accepts the Project or specified area of the Project as substantially complete and will assume full possession of the project or specified area at _____ (time), on _____ (date). The responsibility for heat, utilities, security, and insurance under the Contract Documents shall be as set forth under "Remarks" below.

OWNER:

James Marshall
By James Marshall 10/5/90
Authorized Representative Date

Remarks (Attach additional sheet, if necessary)

SECTION II

2.13 AFFIDAVIT ON BEHALF OF CONTRACTOR

STATE OF Montana

MONT A/E 89-46-101

COUNTY OF Lewis & Clark

DATE August 31, 1990

I certify to the best of my knowledge and belief that all work has been performed and materials supplied in strict conformance with the terms and conditions of the corresponding contract documents between State Lands, the Owner, and Scott Construction, Inc., the Contractor, dated August 23, 1990 for the Hazardous Mine Opening Project Phase 25, Project 26
(Project)

and further declare that all bills for materials, supplies, utilities, and for all other things furnished or caused to be furnished by the above-named Contractor and used in the execution of the above Contract have been fully paid, and there are no unpaid claims or demands of State Agencies, subcontractors, materialmen, mechanics, laborers or any others resulting from or arising out of work done or ordered to be done by said Contractor under the above-identified Contract.

In consideration of the prior and final payments made and all payments made for authorized changes, the Contractor releases and forever discharges the Owner from any and all obligations and liabilities arising by virtue of said Contract and authorized changes between the parties hereto, either verbal or in writing, and any and all claims and demands of every kind and character whatsoever against the Owner, arising out of or in any way relating to said Contract, and authorized changes.

This statement is made for the purpose of inducing the Owner to make Final Payment under the terms of the Contract, relying on the truth and statements contained therein.

Dated this 31 day of September, 1990, at East Helena, Montana.

CONTRACTOR:

Scott Construction, Inc.

By

Patti Scott
Patti Scott, President

Subscribed and sworn to before me this 25 day of October, 1990.

(SEAL)

Jandra S. Cooper
Notary Public for the State of Montana
Residing at Helena
My commission expires October 10, 1991

APPENDIX F
QUANTITIES AND COSTS

QUANTITIES AND COSTS

[illegible]

HAZARDOUS MINE OPENING PROJECT 26
ALHAMBRA MINING DISTRICT, JEFFERSON COUNTY
QUANTITIES AND COSTS

SITE NAME	NO.	SPECIFIED	CONSTRUCTED	C.Y.	L.F.	SIGNS	COST
Alhambra Hot Springs	1-1	Backfill	Backfill	51.4			218.45
	1-2	Grate	16'x 16' Gate				1044.38 (Fabrication) 1950.00 (Installation)
Argonaut	2-3	Grate	24'x 16' Specialty Grate				1867.88 (Fabrication) 1950.00 (Installation)
	2-4	Grate	16'x 16' Gate				1050.00 (Fabrication) 1950.00 (Installation)
	2-5	Cable Net	Culvert				1400.00
	2-6	Cable Net	Cable Net				875.00
	2-7	Backfill	Backfill				1666.00
B & G	3-8	Grate	16'x 16' Gate				1044.38 (Fabrication) 1950.00 (Installation)
Eagles Nest	4-9	Fence	Fence		125	2	612.50
Katie	10-16	-	Adit Door				1000.00
Maupin Creek	5-10	Backfill	Backfill	113.8			483.65
NE NE Section 18	6-11	Fence	Fence		118	2	581.00
NW NW Section 24	7-12	Backfill	Backfill	182.5			775.62
Stiles	11-17	-	Fence		284	2	1328.00
Wall 2	8-13	Blast	Blast				500.00
Willard Creek	9-14	Backfill	Backfill	100.0			425.00
	9-15	Backfill	Backfill	107.0			454.75
Mobilization							154.00
Misc. Site Work							275.00
TOTAL				946.7	527	6	23,555.61

**HAZARDOUS MINE OPENING PROJECT 26
CLANCY MINING DISTRICT, JEFFERSON COUNTY
QUANTITIES AND COSTS**

SITE NAME	NO.	SPECIFIED	CONSTRUCTED	C.Y.	L.F.	SIGNS	COST
Champion	1-1	Backfill	Backfill	165.9			705.08
Delanie	2-2	Grate	10'x 10' Grate				509.42 (Fabrication)
	2-3	Cable Net	Culvert				1950.00 (Installation) 1400.00
Frohner	3-4	Grate	10'x 10' Grate				509.42 (Fabrication)
	3-5	Grate	16'x 16' Grate				1950.00 (Installation)
	3-6	Backfill	Backfill	192.0			1044.38 (Fabrication)
	3-7	Backfill	Backfill	161.0			1950.00 (Installation)
	3-8	Fence	Fence		88	2	816.00
	3-9	Fence	Fence		100	2	684.25
General Grant	4-10	Grate	10'x 10' Grate				446.00
							500.00
Monitor	6-11	Backfill	Backfill	16.0			509.42 (Fabrication)
Morgan Gulch	7-12	Cable Net	-				1950.00 (Installation)
O.K.	5-13	Adit Gate	Culvert				1400.00
Roosevelt	13-15	Fence	Fence		152	2	734.00
SE NW Section 30	8-16	Backfill	Blast				
SW SE Section 32	11-17	Backfill	Backfill	800.08			500.00
	11-18	Backfill	Backfill	94.4			3400.00
SW SW Section 23	12-19	Backfill	Backfill	260.0			3801.20
	12-20	Blast	Blast				1105.00
	12-21	Blast	Blast				500.00
	12-22	Blast	Blast				500.00
Sterling Price	14-23	Fence	Fence		126	2	617.00
	14-28	Backfill	Backfill	155.6			661.30
	14-29	Backfill	Backfill	833.0			3540.25
	14-30	Backfill	Backfill	140.0			595.00
	14-31	Backfill	Backfill	200.0			850.00
	14-32	-	Backfill	202.0			858.50
	14-33	-	Backfill	249.0			1058.25
	14-34	-	Backfill	75.0			318.75
Superior/Jubilee	15-24	Blast	Blast				500.00
	15-25	Blast	Blast				500.00
	15-26	Cable Net	Culvert				1400.00
	15-27	Backfill	Backfill	7.0			29.75
Mobilization							182.00
Misc. Site Work							325.00
TOTAL				4350.9	466	8	38,867.97

HAZARDOUS MINE OPENING PROJECT 26
COLORADO MINING DISTRICT, JEFFERSON COUNTY
QUANTITIES AND COSTS

SITE NAME	NO.	SPECIFIED	CONSTRUCTED	C.Y.	L.F.	SIGNS	COST
Atlanta	1-1	Blast	Blast				500.00
Black Jack	6-21	-	Backfill	118.0			501.50
	6-22	-	Backfill	202.0			858.50
Bluestone	3-2	Cable Net	Cable Net				875.00
Bunker Hill	4-3	Blast	Blast				500.00
	4-4	Backfill	Backfill	3.0			12.75
Copper Gulch	5-5	Backfill	Backfill	7.0			29.75
	5-6	Backfill	Backfill	16.0			68.00
	5-7	Backfill	Backfill	147.0			624.75
	5-8	Backfill	Backfill	2.0			8.50
Lake	8-9	Culvert	Culvert				1400.00
Minnesota	9-10	Fence	Fence		108	1	511.00
NE NE Section 13	10-11	Backfill	Backfill	28.0			119.00
NE NE Section 29	11-12	Culvert	Culvert				1400.00
Rarus	2-13	Culvert	Culvert				1400.00
SE NW Section 22	13-14	Blast	Blast				500.00
	13-15	Sign	Sign			1	25.00
SW SW Section 22	14-16	Blast	Blast				500.00
Salvail	15-17	Culvert	Culvert				1400.00
Tamarack Junior	14-16	Fence	Fence		227	2	1071.50
Vandalia	12-19	Backfill	Backfill	280.0			1190.00
Mobilization							210.00
Misc. Site Work							375.00
TOTALS				803.0	335	4	14080.25

HAZARDOUS MINE OPENING PROJECT 26
McCLELLAN MINING DISTRICT
QUANTITIES AND COSTS

SITE NAME	NO.	SPECIFIED	CONSTRUCTED	C.Y.	L.F.	SIGNS	COST
Crystal Creek	1-1	Backfill	Backfill	72.6			308.55
Doig	2-2	Backfill	Backfill	177.8			755.65
	2-3	Backfill	Backfill	346.9			1474.33
	2-4	Backfill	Backfill	8.3			35.28
NW SE Section 9	3-5	Backfill	Backfill	133.3			566.52
Mobilization							42.00
Misc. Site Work							75.00
TOTAL				738.9			3257.33

HAZARDOUS MINE OPENING PROJECT 26
MONTANA CITY MINING DISTRICT
QUANTITIES AND COSTS

SITE NAME	NO.	SPECIFIED	CONSTRUCTED	C.Y.	L.F.	SIGNS	COST
Faith/Hope	1-1	Backfill	Backfill	93.9			399.08
	1-2	Backfill	Backfill	293.3			1246.52
	1-6	-	Backfill	27.8			118.15
Grant	2-3	Backfill	Backfill	195.6			831.30
	2-4	Backfill	Backfill	120.0			510.00
	2-7	-	Backfill	40.7			172.98
NW NW Section 17	3-5	Fence	Fence		126	1	592.00
Mobilization							42.00
Misc. Site Work							75.00
TOTAL				771.3	126	1	3987.03

HAZARDOUS MINE OPENING PROJECT 26
BLUE CLOUD MINING DISTRICT, LEWIS & CLARK COUNTY
QUANTITIES AND COSTS

SITE NAME	NO.	SPECIFIED	CONSTRUCTED	C.Y.	L.F.	SIGNS	COST
Bulls Head	5-1	Backfill	Backfill	20.0			85.00
Grunenfelder	1-2	Fence	Fence		187	2	891.50
	1-3	Fence	Fence		253	2	1188.50
Looby	13-23	-	10'x 10' Grate				509.42 (Fabrication)
	13-24	-	16'x 24' Grate	146.0			1950.00 (Installation)
	13-25	-	Backfill	44.0			1586.00 (Fabrication)
	13-26	-	Backfill				1950.00 (Installation)
							620.50
							187.00
NE NE Section 25	3-4	Backfill	Backfill	43.0			182.75
NW SE Section 18	6-5	Backfill	Backfill	140.0			595.00
	6-6	Backfill	Backfill	133.0			565.25
SW NW Section 18	7-7	Backfill	Backfill	104.0			442.00
Silver Coin	11-8	Lock	Adit Door				990.30
	11-9	Grate	16'x 16' Grate				1044.38 (Fabrication)
							1950.00 (Installation)
	11-10	Cable Net	Culvert				1400.00
	11-11	Culvert	Culvert				1400.00
	11-12	Grate	16'x 24' Grate				1586.00 (Fabrication)
							1950.00 (Installation)
	11-13	Cable Net	Cable Net				875.00
	11-14	Grate	16'x 24' Grate				1586.00 (Fabrication)
							1950.00 (Installation)
Silver Coin North	12-15	Grate	32'x 36' Grate				5280.00 (Fabrication)
							1950.00 (Installation)
Smallwood	10-16	Fence	Fence		134	1	628.00
Stemwinder	9-17	Cable Net	Culvert				1400.00
	9-18	Culvert	Culvert				1400.00
	9-19/20	Fence	Fence		194	2	923.00
	9-21	Culvert	Culvert				1400.00
	9-22	Culvert	Culvert				1400.00
Mobilization							140.00
Misc. Site Work							250.00
TOTALS				630.0	768	7	40,255.60

HAZARDOUS MINE OPENING PROJECT 26
HELENA MINING DISTRICT, LEWIS & CLARK COUNTY
QUANTITIES AND COSTS

SITE NAME	NO.	SPECIFIED	CONSTRUCTED	C.Y.	L.F.	SIGNS	COST
Arrastra Gulch	1-1	Culvert	Culvert				1400.00
	1-2	Culvert	Culvert				1400.00
	1-3	Fence	Fence		309	2	1440.50
	1-4	Culvert	Culvert				1400.00
	1-5	Blast	Blast				500.00
	1-6	Blast	Blast				500.00
	1-7	Backfill	Backfill	5.3			22.52
	1-8	Backfill	Backfill	108.9			462.82
	1-63	Fence	Fence		98	2	491.00
	1-64	Grate	16'x 16' Grate				1044.38 (Fabrication)
							1950.00 (Installation)
	1-65	Culvert	Culvert				1400.00
	1-66	Culvert	Culvert				1400.00
Bluebird	4-61	-	Culvert				1400.00
	4-62	-	Backfill	26.0			110.50
Crane	21-9	Fence	Fence		148	1	691.00
Daylight	17-10	Cable Net	Culvert				1400.00
	17-71	-	Culvert				1400.00
	17-72	-	Culvert				1400.00
	17-75	-	10'x 10' Grate				509.42 (Fabrication)
							1950.00 (Installation)
Glory Hole	25-50	Backfill	Backfill	3098.			13166.50
	25-59	Backfill	Backfill	667.0			2834.75
Golden	6-11	Backfill	Culvert				1400.00
Howard	3-12	Adit Gate	Adit Gate				1000.00
Humbolt	19-13	Backfill	-				0.00
NE NE Section 16	18-15	Cable Net	-				0.00
	18-16	Cable Net	-				0.00
	18-17	Cable Net	-				0.00
NE NE Section 9	22-18	Culvert	Culvert				1400.00
NE NW Section 11	23-19	Fence	Fence		125	2	612.50
NE NW Section 12	5-20	Culvert	Culvert				1400.00
	5-21	Culvert	Culvert				1400.00
	5-22	Culvert	Culvert				1400.00
	5-23	Culvert	Culvert				1400.00
NE SE Section 8	7-24	Cable Net	Culvert				1400.00
	7-25	Cable Net	Cable Net				875.00
NE SW Section 36	8-26	Cable Net	Cable Net				875.00
	8-27	Cable Net	Cable Net				875.00
	8-28	Cable Net	Cable Net				875.00

HAZARDOUS MINE OPENING PROJECT 26
HELENA MINING DISTRICT, LEWIS & CLARK COUNTY
QUANTITIES AND COSTS - Page 2

SITE NAME	NO.	SPECIFIED	CONSTRUCTED	C.Y.	L.F.	SIGNS	COST
NW SW Section 4	9-30	Backfill	Backfill	65.0			276.25
	9-31	Backfill	Backfill	28.0			119.00
	9-67	-	Backfill	187.0			794.75
	9-68	-	Backfill	33.0			140.25
None Such/Jumbo	13-32	Blast	Blast				500.00
	13-33	Blast	Blast				500.00
	13-34/36	Fence	Fence		338	2	1571.00
	13-37	Blast	Blast				500.00
Oro Y Plata	20-38	Fence	Fence		250	2	1175.00
Park City	10-39	Culvert	Culvert				1400.00
	10-40	Culvert	Culvert				1400.00
SE SW Section 9	11-41	Backfill	Backfill	12.0			51.00
SW NW Section 11	12-42	Cable Net	Culvert				1400.00
	12-43	Cable Net	Culvert				1400.00
	12-44	Cable Net	Culvert				1400.00
	12-45	Blast	Blast				500.00
	12-60	Cable Net	Culvert				1400.00
	12-69	-	Culvert				1400.00
	12-70	-	Culvert				1400.00
SW SE Section 12	14-46	Backfill	Backfill	6.7			28.48
	14-47	Backfill	Backfill	1.8			7.65
	14-48	Backfill	Backfill	1.8			7.65
SW SW Section 11	24-49	Cable Net	Cable Net				875.00
Squaw Gulch	16-51	Cable Net	Cable Net				875.00
	16-52	Fence	Fence		286	2	1337.00
	16-53	Cable Net	Cable Net				875.00
	16-54	Fence	Fence		129	1	605.50
	16-57	Backfill	Backfill	9.0			38.25
	16-58	Backfill	Backfill	28.0			119.00
Twilight	2-55	Cable Net	Culvert				1400.00
	2-56	Fence	Fence		103	2	513.50
	2-73	-	Culvert				1400.00
	2-74	-	Culvert				1400.00
Mobilization							336.00
Misc. Site Work							600.00
TOTAL				4277.5	1786	16	80,931.17

HAZARDOUS MINE OPENING PROJECT 26
SCRATCHGRAVEL MINING DISTRICT, LEWIS & CLARK COUNTY
QUANTITIES AND COSTS

SITE NAME							
	NO.	SPECIFIED	CONSTRUCTED	C.Y.	L.F.	SIGNS	COST
Ariadene	1-1	Cable Net	Cable Net				875.00
	1-2	Culvert	Culvert				1400.00
	1-3	Cable Net	Cable Net				875.00
Babcock	20-53	-	Backfill	37.0			157.25
Carbonate	2-4	Cable Net	Cable Net				875.00
	2-5	Cable Net	Blast				500.00
Eagle	3-6	Blast	Blast				500.00
	3-7	Blast	Blast				500.00
	3-8	Blast	Blast				500.00
	3-9	Blast	Blast				500.00
	3-10	Backfill	Backfill	16.0			68.00
	3-11	Backfill	Backfill	26.0			110.50
	3-12	Culvert	Culvert				1400.00
	3-13	Culvert	Culvert				1400.00
	3-14	Backfill	Backfill	31.0			131.75
	3-15	Culvert	Culvert				1400.00
	3-16	Culvert	Culvert				1400.00
	3-17	Backfill	Backfill	31.0			131.75
Franklin	18-45	Backfill	Backfill	40.0			170.00
	18-46	Backfill	Backfill	58.0			246.50
	18-47	Backfill	Backfill	265.2			1127.10
	18-48	Grate	16'x 24' Grate				1586.00 (Fabrication)
							1950.00 (Installation)
	18-49	Grate	24'x 24' Grate				2350.00 (Fabrication)
							1950.00 (Installation)
	18-50	Backfill	Backfill	33.0			140.25
Green Bird	4-18	Fence	Fence		205	2	972.50
	4-19	Fence	Fence		165	2	792.50
Independent	12-20	Backfill	Backfill	36.0			153.00
Lovely	19-52	-	Backfill	73.0			310.25
NE NW Section 35	5-21	Backfill	Backfill	25.0			106.25
NE SW Section 26	15-22	Culvert	Cable Net				875.00
	15-23	Culvert	Culvert				1400.00
	15-24	Cable Net	Culvert				1400.00
	15-25	Cable Net	Culvert				1400.00
NE SW Section 36	6-26	Culvert	Culvert				1400.00
NW SW Section 25	16-27	Backfill	Backfill	44.0			187.00
Pearson	21-54	-	Backfill	21.0			89.25
SE NE Section 2	8-28	Backfill	Backfill	60.0			255.00

HAZARDOUS MINE OPENING PROJECT 26
SCRATCHGRAVEL MINING DISTRICT, LEWIS & CLARK COUNTY
QUANTITIES AND COSTS - Page 2

SITE NAME	NO.	SPECIFIED	CONSTRUCTED	C.Y.	L.F.	SIGNS	COST
SE NE Section 35	7-29	Cable Net	Cable Net				875.00
	7-30	Cable Net	Cable Net				875.00
	7-31	Cable Net	Cable Net				875.00
	7-32	Cable Net	Adit Door				1000.00
	7-33	Cable Net	Culvert				1400.00
	7-34	Cable Net	Culvert				1400.00
	7-51	-	Culvert				1400.00
	7-55	-	Cable Net				875.00
	7-56	-	Cable Net				875.00
SE SE Section 35	9-35	Backfill	Backfill	33.0			140.25
	9-36	Culvert	Culvert				1400.00
	9-37	Fence	Fence		131	1	614.50
SE SW Section 34	10-38	Backfill	Backfill	233.0			990.25
	10-39	Backfill	Backfill	107.0			454.75
	10-40	Backfill	Backfill	42.0			178.50
Silver Fork	17-41	Fence	Fence		170	2	815.00
Sunshine	13-42	Backfill	Backfill	55.0			233.75
Swan	11-43	Backfill	Backfill	103.0			437.75
Tavo	14-44	Grate	24'x 24' Grate				2350.00 (Fabrication) 1950.00 (Installation)
Mobilization							294.00
Misc. Site Work							525.00
TOTAL				1369.2	671	7	51543.60

HAZARDOUS MINE OPENING PROJECT 26
BLUE EYED NELLIE, GEORGETOWN & SILVER LAKE MINING DISTRICTS,
DEER LODGE COUNTY
QUANTITIES AND COSTS

SITE NAME	NO.	SPECIFIED	CONSTRUCTED	C.Y.	L.F.	SIGNS	COST
Blue Eyed Nellie District							
Bonita	20-50	-	16'x 24' Grate				1627.12 (Fabrication) 1950.00 (Installation)
Boomerang	21-51	-	16'x 24' Grate				1627.12 (Fabrication) 1950.00 (Installation)
Georgetown District							
Bob Evans	8-13	-	24'x 24' Grate				2478.52 (Fabrication) 1950.00 (Installation)
Twilight	7-12	-	16'x 16' Grate				1044.38 (Fabrication) 1950.00 (Installation)
Silver Lake District							
Daly Gulch	26-40 26-41	- -	Backfill Backfill	92.0 244.0			391.00 1037.00
Mobilization							370.00
Misc. Site Work							82.00
TOTAL				336.0			16,457.14

APPENDIX G

SLIDE LOG

HAZARDOUS MINE OPENING PROJECT 26 CONSTRUCTION SLIDE LOG

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
1	9-25-89	Alhambra	Alhambra Hot Springs	1-1	Before, 20' south of opening
2	9-25-89	Alhambra	Alhambra Hot Springs	1-1	During, 20' south, backfilling with loader
1	5-88	Alhambra	Alhambra Hot Springs	1-2	Before, 30' east of opening
5	9-26-90	Alhambra	Alhambra Hot Springs	1-2	During, 30' east, placing grate over opening
7	7-88	Alhambra	Argonaut	2-3	Before, 40' east of opening
9	7-88	Alhambra	Argonaut	2-3	Before, 30' west of opening
11	7-88	Alhambra	Argonaut	2-5	Before, 35' south of opening
13	7-88	Alhambra	Argonaut	2-6	Before, 20' south of opening
15	9-20-89	Alhambra	Argonaut	2-7	Before, 30' south of opening
16	9-20-89	Alhambra	Argonaut	2-7	During, 30' south, backfilling with loader
18	7-88	Alhambra	B&G	3-8	Before, 30' west of opening
20	7-88	Alhambra	Eagles Nest	4-9	Before, 15' east of opening
22	9-19-89	Alhambra	Maupin Creek	5-10	Before, 25' north of opening
23	9-19-90	Alhambra	Maupin Creek	5-10	During, 25' north, backfilling with loader
24	9-19-89	Alhambra	Maupin Creek	5-10	After, 25' north of opening
25	9-18-89	Alhambra	NE NE Section 18	6-11	Before, 20' west of opening
26	6-88	Alhambra	NW NW Section 24	7-12	Before, 20' east of opening
27	9-19-89	Alhambra	NW NW Section 24	7-12	During, 30' north, backfilling with loader
28	9-19-89	Alhambra	NW NW Section 24	7-12	After, 30' south of opening
29	7-23-89	Alhambra	Wall 2	8-13	Before, 25' west of opening
30	7-23-89	Alhambra	Wall 2	8-13	During, 20' west of opening
31	7-23-89	Alhambra	Wall 2	8-13	After, 30' west of opening
32	9-18-89	Alhambra	Willard Creek	9-14	Before, 40' north of opening
33	9-18-89	Alhambra	Willard Creek	9-14	During, 40' north of opening
34	9-18-89	Alhambra	Willard Creek	9-15	Before, 30' north of opening
35	9-18-89	Alhambra	Willard Creek	9-15	During, 30' north, backfilling with loader
36	9-19-89	Alhambra	Katie	10-16	Before, 40' north of opening
37	9-19-89	Alhambra	Katie	10-16	During, 40' north of opening
38	10-89	Alhambra	Euclid	Maint.	Before, 30' west of opening
39	10-89	Alhambra	Euclid	Maint.	During, 30' west, backfilling with loader

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
40	10-2-89	Clancy	Champion	1-1	Before, 30' south of opening
41	10-2-89	Clancy	Champion	1-1	During, 40' south, backfilling with loader
42	7-19-90	Clancy	Delanie	2-2	Before, 20' west of opening
43	7-19-90	Clancy	Delanie	2-2	After, 20' west of opening
44	7-18-90	Clancy	Delanie	2-3	Before, 25' west of opening
45	7-19-90	Clancy	Delanie	2-3	During, 40' east, preparing culvert bed
46	7-19-90	Clancy	Delanie	2-3	After, 25' east of opening
48	8-88	Clancy	Frohner	3-4	Before, 30' east of opening
48	9-27-89	Clancy	Frohner	3-4	During, 50' east, installing grate by hand.
49	6-88	Clancy	Frohner	3-5	Before, 20' east of opening
51	9-27-89	Clancy	Frohner	3-5	During, 25' east, unloading grate
51	9-26-89	Clancy	Frohner	3-6	Before, 25' south of opening
52	9-26-89	Clancy	Frohner	3-6	During, 25' south, backfilling with loader
53	9-26-89	Clancy	Frohner	3-7	Before, 60' east of opening
54	9-26-89	Clancy	Frohner	3-7	During, 35' east, backfilling with loader
55	10-7-89	Clancy	Frohner	3-8	Before, 30' east of opening
56	10-7-89	Clancy	Frohner	3-8	During, 20' east, excavating corner posts
57	10-7-89	Clancy	Frohner	3-9	Before, 25' east of opening
58	10-7-89	Clancy	Frohner	3-9	During, 25' east, pounding line posts
59	6-88	Clancy	General Grant	4-10	Before, 50' north of opening
60	9-26-88	Clancy	General Grant	4-10	During, 35' north, installing grate by hand.
61	7-23-90	Clancy	Monitor	6-11	Before, 40' south of opening
62	7-23-90	Clancy	Monitor	6-11	During, 30' south, backfilling with loader
63	7-23-90	Clancy	Monitor	6-11	After, 50' south of opening
64	5-88	Clancy	OK	5-13	Before, 15' north of opening
65	10-7-89	Clancy	OK	5-13	During, 30' north, preparing culvert bed
66	8-88	Clancy	Roosevelt	13-15	Before, 40' south of opening
67	7-20-90	Clancy	SE NW Section 30	8-16	Before, 35' south of opening
68	7-20-90	Clancy	SE NW Section 30	8-16	During, 300' south, mixing explosives
69	7-20-90	Clancy	SE NW Section 30	8-16	During, 10' south, loading blast holes
70	7-20-90	Clancy	SE NW Section 30	8-16	After, 60' south of opening
71	9-23-89	Clancy	SW SE Section 32	11-17	Before, 100' south of opening

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
72	9-28-89	Clancy	SW SE Section 32	11-17	During, 30' south, backfilling with loader
73	9-27-90	Clancy	SW SE Section 32	11-18	Before, 35' west of opening
90	9-27-89	Clancy	SW SE Section 32	11-18	During, 35' west, backfilling with loader
75	9-27-89	Clancy	SW SE Section 32	11-17	After, 50' east of opening
96	9-27-89	Clancy	SW SW Section 23	12-19	Before, 50' north of opening
79	9-27-89	Clancy	SW SW Section 23	12-19	During, 50' north of opening
98	7-20-90	Clancy	SW SW Section 23	12-20	Before, 25' east of opening
79	7-20-90	Clancy	SW SW Section 23	12-20	During, 25' east, barring blast holes
89	7-20-90	Clancy	SW SW Section 23	12-20	During, 25' east, hand placing fill
89	7-20-90	Clancy	SW SW Section 23	12-20	After, 25' east of opening
82	7-20-90	Clancy	SW SW Section 23	12-21	Before, 30' east of opening
83	7-20-90	Clancy	SW SW Section 23	12-20	During, 20' east, removing timbers
84	7-20-90	Clancy	SW SW Section 23	12-21	After 50' east of opening
96	7-20-90	Clancy	SW SW Section 23	12-22	Before, 40' east of opening
98	7-20-90	Clancy	SW SW Section 23	12-22	During, 60' east, completing closure
87	7-20-90	Clancy	SW SW Section 23	12-22	After, 40' east of opening
96	9-29-89	Clancy	Sterling Price	14-28	Before, 40' south of opening
89	9-29-89	Clancy	Sterling Price	14-29	Before, 40' south of opening
90	9-29-89	Clancy	Sterling Price	14-29	During, 40' south, backfilling with loader
91	9-29-89	Clancy	Sterling Price	14-30	During, 60' north, leveling site with loader
92	9-29-89	Clancy	Sterling Price	14-31	Before, 20' east of opening
73	9-29-89	Clancy	Sterling Price	14-31	During, 20' east, backfilling with loader
94	9-30-89	Clancy	Sterling Price	14-32	Before, 20' south of opening
95	9-30-89	Clancy	Sterling Price	14-32	During, 20' south, backfilling with loader
96	9-28-89	Clancy	Sterling Price	14-33	Before, 40' north of opening
97	9-28-89	Clancy	Sterling Price	14-33	During, 40' north, backfilling with loader
98	9-30-89	Clancy	Sterling Price	14-34	Before, 25' north of opening
95	9-30-90	Clancy	Sterling Price	15-24	Before, 30' east of opening
100	7-23-90	Clancy	Superior/Jubilee	15-24	Before, 30' east of opening
100	7-23-90	Clancy	Superior/Jubilee	15-24	During, 300' north, setting charges
102	7-23-90	Clancy	Superior/Jubilee	15-24	After, 40' east of opening
103	7-23-90	Clancy	Superior/Jubilee	15-25	Before, 30' west of opening

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
104	7-23-90	Clancy	Superior/Jubilee	15-25	During, 200' north, preparing detonation
105	7-23-90	Clancy	Superior/Jubilee	15-25	After, 50' east of opening
106	10-2-89	Clancy	Superior/Jubilee	15-26	Before, 40' north of opening
107	7-23-90	Clancy	Superior/Jubilee	15-26	After, 30' north of opening
108	7-17-90	Colorado	Atlanta	1-1	Before, 20' east of opening
109	7-17-90	Colorado	Atlanta	1-1	After, 20' east of opening
110	10-89	Colorado	Bluestone	3-2	Before, 40' east of opening
112	7-11-90	Colorado	Bunker Hill	4-3	Before, 15' east of opening
114	7-13-90	Colorado	Bunker Hill	4-3	After, 30' east of opening
114	7-11-90	Colorado	Bunker Hill	4-4	Before, 15' east of opening
115	7-11-90	Colorado	Bunker Hill	4-4	After, 15' east of opening
116	7-12-90	Colorado	Copper Gulch	5-5	Before, 15' south of opening
117	7-13-90	Colorado	Copper Gulch	5-5	During, 20' south, backfilling with loader
118	7-17-90	Colorado	Copper Gulch	5-5	After, 20' south of opening
119	7-11-90	Colorado	Copper Gulch	5-6	Before, 40' west of opening
120	7-18-90	Colorado	Copper Gulch	5-6	During, 40' west, backfilling with loader
121	7-17-90	Colorado	Copper Gulch	5-6	After, 30' west of opening
122	7-11-90	Colorado	Copper Gulch	5-7	Before, 15' east of opening
123	7-13-90	Colorado	Copper Gulch	5-7	During, 20' east, backfilling with loader
124	7-17-90	Colorado	Copper Gulch	5-7	After, 20' east of opening
125	7-13-90	Colorado	Copper Gulch	5-8	Before, 10' south of opening
126	7-17-90	Colorado	Copper Gulch	5-8	During, 10' south, seeding
127	7-17-90	Colorado	Copper Gulch	5-8	After, 10' south of opening
128	9-15-89	Colorado	Lake	8-9	Before, 50' east of opening
129	7-12-90	Colorado	Lake	8-9	After, 50' east of opening
130	7-13-90	Colorado	Minnesota	9-10	Before, 30' north of opening
131	7-13-90	Colorado	Minnesota	9-10	During, 20' north, digging post holes
132	7-23-90	Colorado	Minnesota	9-10	After, 40' north of opening
133	7-18-90	Colorado	NE NE Section 13	10-11	Before, 25' east of opening
134	7-18-90	Colorado	NE NE Section 13	10-11	Before, 10' inside adit
135	7-18-90	Colorado	NE NE Section 13	10-11	During, 40' east of opening, removing timbers with loader
136	7-18-90	Colorado	NE NE Section 13	10-11	After, 30' east of opening

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
137	7-11-90	Colorado	NE NE Section 29	11-12	Before, 35' east of opening
138	7-19-90	Colorado	NE NE Section 29	11-12	During, 35' east, backfilling culvert
139	7-19-90	Colorado	NE NE Section 29	11-12	After, 25' east of opening
140	9-15-89	Colorado	Rarus	2-13	Before, 20' east of opening
141	9-15-89	Colorado	Rarus	2-13	During, 30' east, placing backfill
142	8-88	Colorado	SE NW Section 22	13-14	Before, 20' east of opening
143	7-17-90	Colorado	SE NW Section 22	13-14	During, 25' east, spreading seed
144	7-17-90	Colorado	SE NW Section 22	13-14	After, 15' south of opening
145	6-88	Colorado	SE NW Section 22	13-15	Before, 15' north of opening
146	7-17-90	Colorado	SE NW Section 22	14-16	After, 15' south of opening
147	7-13-90	Colorado	SW SW Section 22	14-16	Before, 20' west of opening
148	7-19-90	Colorado	SW SW Section 22	16-18	During, 40' south, preparing blast wire
149	7-13-90	Colorado	SW SW Section 22	14-16	After, 20' west of opening
150	7-17-90	Colorado	Salvail	15-17	Before, 40' south of opening
151	7-17-90	Colorado	Salvail	15-17	During, 20' east of opening, cutting culvert
152	7-19-90	Colorado	Salvail	15-17	After, 25' south of opening
153	7-19-90	Colorado	Tamarack Junior	16-18	Before, 25' west of opening
153	7-12-90	Colorado	Tamarack Junior	14-16	During, 20' north, digging post hole
155	7-12-90	Colorado	Tamarack Junior	16-18	After, 25' west of opening
156	7-19-90	Colorado	Vandalia	12-19	Before, 30' south of opening
153	7-19-90	Colorado	Vandalia	12-19	During, 50' south, backfilling with loader
158	7-19-90	Colorado	Vandalia	12-19	After, 30' south of opening
159	7-19-90	Colorado	Black Jack	6-21	Before, 25' north of opening
160	7-19-90	Colorado	Black Jack	6-21	During, 25' north, backfilling with dozer
161	7-23-90	Colorado	Black Jack	6-21	After, 40' north of opening
162	7-19-90	Colorado	Black Jack	6-22	Before, 15' north of opening
163	7-19-90	Colorado	Black Jack	6-22	During, 50' south, backfilling with dozer
164	7-23-90	Colorado	Black Jack	6-22	After, 50' north of opening
166	10-14-89	McClellan	Crystal Creek	1-1	Before, 20' west of opening
166	10-14-89	McClellan	Crystal Creek	1-1	During, 20' west, backfilling with dozer
167	7-88	McClellan	Doig	2-2	Before, 50' east of opening
168	7-88	McClellan	Doig	2-3	Before, 30' east of opening
169	10-16-89	McClellan	Doig	2-4	Before, 20' west of opening

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
174	10-14-89	McClellan	Doig	2-4	During, 20' west, backfilling with loader
174	10-14-89	McClellan	NW SE Section 9	3-5	Before, 20' west of opening
172	10-14-89	McClellan	NW SE Section 9	3-5	During, 10' west, backfilling with loader
173	10-16-89	McClellan/ Blue Cloud			Weed control: equipment washdown between McClellan & Blue Cloud Districts
174	10-6-89	Montana City	Faith/Hope	1-1	Before, 30' east of opening
195	10-6-89	Montana City	Faith/Hope	1-1	After, 60' east of opening
174	10-6-89	Montana City	Faith/ Hope	1-2	Before, 30' south of opening
177	10-6-89	Montana City	Faith/Hope	1-2	During, 30' south backfilling with loader
174	10-5-89	Montana City	Grant	2-3	Before, 40' east of opening
179	10-5-89	Montana City`	Grant	2-3	During, 30' south, backfilling with loader
180	10-5-89	Montana City	Grant	2-3	After, 30' south of opening
189	10-5-89	Montana City	Grant	2-4	Before, 30' south of opening
182	10-5-89	Montana City`	Grant	2-4	During, 30' south, backfilling with loader
183	10-5-89	Montana City	Grant	2-4	After, 30' south of opening
184	7-88	Montana City`	NW NW Section 17	3-5	Before, 25' west of opening
185	7-24-90	Montana City	NW NW Section 17	3-5	After, 60' west of opening
186	6-8-90	Blue Cloud	Bulls Head	5-1	Before, 40' north of opening
187	6-19-90	Blue Cloud	Bulls Head	5-1	During, 40' north, backfilling with loader
186	7-2-90	Blue Cloud	Bulls Head	5-1	After, 60' south of opening
189	7-88	Blue Cloud	Grunenfelder	1-2	Before, 50' west of opening
196	7-2-90	Blue Cloud	Grunenfelder	1-2	During, 60' north, installing fence wire
191	7-24-90	Blue Cloud	Grunenfelder	1-2	After, 60' north of opening
192	7-2-90	Blue Cloud	Grunenfelder	1-3	Before, 30' north of opening
193	7-2-90	Blue Cloud	Grunenfelder	1-3	During, 40' west, installing fence wire
194	7-24-90	Blue Cloud	Grunenfelder	1-3	After, 70' north of opening
195	6-19-90	Blue Cloud	NE NE Section 25	3-4	Before, 20' south of opening
196	6-19-90	Blue Cloud	NE NE Section 25	3-4	During, 20' south, backfilling with loader
197	7-2-90	Blue Cloud	NE NE Section 25	3-4	After, 60' east of opening
196	5-23-90	Blue Cloud	NW SE Section 18	6-5	Before, 50' west of opening
199	5-23-90	Blue Cloud	NW SE Section 18	6-5	During, 40' north, backfilling with loader
200	5-23-90	Blue Cloud	NW SE Section 18	6-5	After, 100' north of opening
201	5-23-90	Blue Cloud	NW SE Section 18	6-6	Before, 20' east of opening

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
202	5-23-90	Blue Cloud	NW SE Section 18	6-6	During, 30' south, backfilling with loader
203	5-23-90	Blue Cloud	NW SE Section 18	6-6	After, 50' south of opening
204	5-23-90	Blue Cloud	SE NW Section 18	7-7	Before, 20' east of opening
205	5-23-90	Blue Cloud	SE NW Section 18	7-7	During, 30' west, backfilling with loader
206	5-23-90	Blue Cloud	SE NW Section 18	7-7	After, 80' east of opening
207	5-23-90	Blue Cloud			Weed control; washing 931 cat trackloader
208	6-88	Blue Cloud	Silver Coin	11-8	Before, 40' south of opening
209	1-25-89	Blue Cloud	Silver Coin	11-8	During, 40' south, installing adit door
210	7-27-90	Blue Cloud	Silver Coin	11-9	Before, 30' south of opening
212	7-27-90	Blue Cloud	Silver Coin	11-9	After, 40' south of opening
213	10-25-90	Blue Cloud	Silver Coin	11-10	Before, 30' west of opening
214	7-27-90	Blue Cloud	Silver Coin	11-10	After, 25' west of opening
215	10-25-90	Blue Cloud	Silver Coin	11-11	Before, 25' west of opening
216	10-25-89	Blue Cloud	Silver Coin	11-11	During, 20' west, installing culvert
217	7-27-90	Blue Cloud	Silver Coin	11-11	After, 20' west of opening
218	6-88	Blue Cloud	Silver Coin	11-12	Before, 25' west of opening
219	7-27-90	Blue Cloud	Silver Coin	11-12	After, 50' west of opening
220	6-88	Blue Cloud	Silver Coin	11-13	Before, 30' west of opening
221	10-25-89	Blue Cloud	Silver Coin	11-13	During, 30' west, installing culvert
222	7-27-90	Blue Cloud	Silver Coin	11-13	After, 25' west of opening
223	6-88	Blue Cloud	Silver Coin	11-11	Before, 40' west of opening
224	7-27-90	Blue Cloud	Silver Coin	11-14	After, 35' north of opening
225	5-21-90	Blue Cloud	Silver Coin North	12-15	Before, 40' west of opening
226	5-21-90	Blue Cloud	Silver Coin North	12-15	During, 100' north, installing grate
227	6-8-90	Blue Cloud	Silver Coin North	12-15	After, 100' west of opening
228	9-88	Blue Cloud	Smallwood	10-16	Before, 40' east of opening
229	7-2-90	Blue Cloud	Smallwood	10-16	During, 50' east, installing corner posts
230	7-24-90	Blue Cloud	Smallwood	10-16	After, 20' east of opening
231	5-29-90	Blue Cloud	Stemwinder	9-17	Before, 25' south of opening
232	5-29-90	Blue Cloud	Stemwinder	9-17	During, 35' south, compacting backfill
233	5-31-90	Blue Cloud	Stemwinder	9-18	After, 20' north of opening
234	5-29-90	Blue Cloud	Stemwinder	9-18	Before, 20' north of opening
235	5-29-90	Blue Cloud	Stemwinder	9-18	During, 30' south, excavating with loader

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
236	5-31-90	Blue Cloud	Stemwinder	9-18	After, 50' east of opening
237	6-8-90	Blue Cloud	Stemwinder	9-19/20	Before, 40' north of opening
238	6-8-90	Blue Cloud	Stemwinder	9-19/20	During, 50' south, concreting corner posts
240	7-24-90	Blue Cloud	Stemwinder	9-19/20	After, 60' north of opening
240	5-23-90	Blue Cloud	Stemwinder	9-21	Before, 20' east
240	5-29-90	Blue Cloud	Stemwinder	9-21	During, 40' south, backfilling culvert
242	5-31-90	Blue Cloud	Stemwinder	9-21	After, 30' south of opening
243	5-23-90	Blue Cloud	Stemwinder	9-22	Before, 20' south of opening
244	5-29-90	Blue Cloud	Stemwinder	9-22	During, 25' south, preparing culvert bed
245	5-31-90	Blue Cloud	Stemwinder	9-22	After, 30' west of opening
246	6-8-90	Blue Cloud	Looby	13-23	After, 30' west of opening
247	5-30-90	Blue Cloud	Looby	13-24	Before, 20' west of opening
248	6-8-90	Blue Cloud	Looby	13-24	During, 35' north, unloading grate
240	6-8-90	Blue Cloud	Looby	13-24	After, 80' west of opening
250	7-25-90	Blue Cloud	Looby	13-25	Before, 35' north of opening
251	7-25-90	Blue Cloud	Looby	13-25	During, 60' north, backfilling with dozer
252	7-25-90	Blue Cloud	Looby	13-25	After, 60' north of opening
253	7-25-90	Blue Cloud	Looby	13-26	Before, 25' east of opening
254	7-25-90	Blue Cloud	Looby	13-26	During, 25' east, removing timbers
255	7-25-90	Blue Cloud	Looby	13-26	After, 60' east of opening
256	10-17-89	Helena	Arrastra Gulch	1-1	Before, 40' south of opening
257	7-11-90	Helena	Arrastra Gulch	1-1	After, 30' south of opening
258	7-88	Helena	Arrastra Gulch	1-2	Before, 25' east
259	8-13-90	Helena	Arrastra Gulch	1-2	After, 10' east of opening
240	7-88	Helena	Arrastra Gulch	1-3	Before, 25' south of opening
261	7-88	Helena	Arrastra Gulch	1-4	Before, 40' east of opening
262	8-13-90	Helena	Arrastra Gulch	1-4	After, 40' east of opening
263	8-13-90	Helena	Arrastra Gulch	1-5	Before, 25' east of opening
263	8-13-90	Helena	Arrastra Gulch	1-4	Before, 15' east of opening
265	8-13-90	Helena	Arrastra Gulch	1-7	After, 30' south of opening
266	8-13-90	Helena	Arrastra Gulch	1-63	After, 25' north of opening
267	10-17-90	Helena	Arrastra Gulch	1-64	After, 30' east of opening
268	10-17-90	Helena	Arrastra Gulch	1-65	After, 40' west of opening

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
269	7/11/90	Helena	Crane	21-9	Before, 40' E. of opening
270	7/24/90	Helena	Crane	21-9	After, 30' S. of opening
271	7/2/90	Helena	Daylight	17-10	Before, 15' W. of opening
272	7/2/90	Helena	Daylight	17-10	After, 25' W. of opening
270	7/2/90	Helena	Daylight	17-75	During, 10' N. of opening
270	7/2/90	Helena	Daylight	17-75	After, 25' N. of opening
275	6/25/90	Helena	Glory Hole	25-50	Before, 50' W. of opening
276	6/25/90	Helena	Glory Hole	25-50	Before, 75' E. of borrow area
277	6/25/90	Helena	Glory Hole	25-50	During 60' E. of opening
278	6/27/90	Helena	Glory Hole	25-50	During, 20' W. of opening
279	6/29/90	Helena	Glory Hole	25-50	During, 150' W. of opening
280	6/29/90	Helena	Glory Hole	25-50	After, 125' E. of borrow area
281	6/29/90	Helena	Glory Hole	25-50	After, 50' N. of opening
282	6/25/90	Helena	Glory Hole	25-50	Before, 40' N. of opening
283	6/28/90	Helena	Glory Hole	25-59	During, 120' W. of opening
284	6/29/90	Helena	Glory Hole	25-59	After, 120' W. of opening
285	10/12/89	Helena	Golden	6-11	Before, 30' N. of opening
286	10/12/89	Helena	Golden	6-11	During, 30' N. of opening
287	7/11/90	Helena	Howard	3-12	Before, 20' E. of opening
286	7/11/90	Helena	Howard	3-12	Installing adit gate, 15' W.
289	7/24/90	Helena	Howard	3-12	After, 20' E. of opening
290	5/89	Helena	NE NE Section 9	22-18	Before, 30' E. of opening
291	6/20/90	Helena	NE NE Section 9	22-18	Installing culvert w/loader, 15' E.
292	7/2/90	Helena	NE NE Section 9	22-18	After, 40' E. of opening
294	5/89	Helena	NE NW Section 11	23-19	Before, 60' E. of opening
294	7/88	Helena	NE NW Section 12	5-20	Before, 20' N. of opening
295	8/13/90	Helena	NE NW Section 12	5-20	After, 15' N. of opening
296	7/88	Helena	NE NW Section 12	5-20	Before, 15' N. of opening
297	8/13/90	Helena	NE NW Section 12	5-21	After, 25' N. of opening
294	7/88	Helena	NE NW Section 12	5-22	Before, 25 N. of opening
300	8/13/90	Helena	NE NW Section 12	5-23	Before, 35' N. of opening
301	7/88	Helena	NE NW Section 12	5-23	After, 30' N. of opening
302	6/25/90	Helena	NE SE Section 8	7-24	Before, 25' E. of opening

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
303	7/2/90	Helena	NE SE Section 8	7-24	After, 20' N. of opening
304	6/25/90	Helena	NE SE Section 8	7-25	Before, 20' N. of opening
305	7/2/90	Helena	NE SE Section 8	7-25	Drilling anchor holes for cable net
306	7/2/90	Helena	NE SE Section 8	7-25	After, 20' W. of opening
307	7/88	Helena	NE SW Section 36	8-26	Before, 20' S. of opening
308	7/88	Helena	NE SW Section 36	7-24	Before, 20' S. of opening
309	7/88	Helena	NE SW Section 36	8-28	Before, 15' S. of opening
310	6/20/90	Helena	NW NW Section 4	9-30/31	Before, 50' S. of opening
311	6/20/90	Helena	NW NW Section 4	9-30	Backfilling w/dozer, 40' E.
312	6/20/90	Helena	NW NW Section 4	9-31	Backfilling w/dozer, 25' S.
313	6/20/90	Helena	NW NW Section 4	9-30/31	After, 50' S. of opening
314	6/20/90	Helena	NW NW Section 4	9-67	Before, 60' S. of opening
315	6/20/90	Helena	NW NW Section 4	9-67	Leveling w/dozer, 20' S.
316	6/20/90	Helena	NW NW Section 4	9-67	After, 60' S. of opening
317	6/20/90	Helena	NW NW Section 4	9-68	Before, 30' S. of opening
318	6/20/90	Helena	NW NW Section 4	9-68	Backfilling w/dozer, 30' S.
319	6/20/90	Helena	NW NW Section 4	9-68	After, 40' S. of opening
320	7/88	Helena	None Such/Jumbo	13-32	Before, 20' E. of opening
321	7/11/90	Helena	None Such/Jumbo	13-33	Before, 25' E. of opening
322	7/24/90	Helena	None Such/Jumbo	13-33	During, blasting equipment, 150' E.
323	7/24/90	Helena	None Such/Jumbo	13-33	After, 25' E. of opening
324	7/88	Helena	None Such/Jumbo	13-34/35/36	Before, 30' W. of openings
325	7/11/90	Helena	None Such/Jumbo	13-34/35/36	After, 40' N. of openings
326	7/11/90	Helena	None Such/Jumbo	13-37	Before, 25' E. of opening
327	7/11/90	Helena	None Such/Jumbo	13-37	During, setting charges, 200' N.
328	7/11/90	Helena	None Such/Jumbo	13-37	After, 20' E. of opening
327	8/13/90	Helena	Oro Y Plata	20-38	After, 60' N. of opening
330	6/20/90	Helena	Park City	10-39	Before, 35' N. of opening
331	6/20/90	Helena	Park City	10-39	During, 30' N. off loading culvert
332	6/25/90	Helena	Park City	10-39	After, 40' N. of opening
333	6/20/90	Helena	Park City	10-40	Before, 35' N. of opening
334	6/20/90	Helena	Park City	10-40	During, compacting fill around culvert
335	6/25/90	Helena	Park City	10-40	After, 40' N. of opening

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
336	6/25/90	Helena	SE SW Section 9	11-41	Before, 20' E. of opening
337	6/28/90	Helena	SE SW Section 9	11-41	During, 15' E. of opening
336	6/28/90	Helena	SE SW Section 9	11-41	After, 25' E. of opening
339	10/10/89	Helena	SW NW Section 11	12-42	During, 30' N. offloading culvert
340	10/11/89	Helena	SW NW Section 11	12-42	During, 15' N., installing culvert
343	10/10/89	Helena	SW NW Section 11	12-43	Before, 30' N. of opening
344	7/2/90	Helena	SW NW Section 11	12-43	After, 30' N. of opening
346	7/88	Helena	SW NW Section 11	12-44	Before, 25' N. of opening
346	8/15/90	Helena	SW NW Section 11	12-44	After, 40' N. of opening
347	7/88	Helena	SW NW Section 11	12-45	Before, 20' E. of opening
349	8/13/90	Helena	SW NW Section 11	12-45	After, 30' E. of opening
339	6/28/90	Helena	SW NW Section 11	12-60	Before, 30' N. of opening
357	6/28/90	Helena	SW NW Section 11	12-60	Hand placing culvert, 20' N.
354	6/28/90	Helena	SW NW Section 11	12-60	After, 20' N. of opening
352	10/10/89	Helena	SW NW Section 11	12-69	Before, 25' E. of opening
353	10/10/89	Helena	SW NW Section 11	12-69	Backfilling around culvert, 20' E.
354	7/2/90	Helena	SW NW Section 11	12-69	After, 35' E. of opening
355	8/13/90	Helena	SW NW Section 11	12-70	After, 20' S. of opening
356	7/2/90	Helena	Daylight	17-71/72	After, 25' W. of opening
357	7/88	Helena	SW SE Section 12	14-48	Before, 20' E. of opening
357	7/88	Helena	SW SE Section 12	14-48	Before, 10' E. of opening
357	7/88	Helena	SW SE Section 12	14-48	Before, 15' E. of opening
360	5/89	Helena	SW SW Section 11	24-49	Before, 25' S. of opening
361	7/2/90	Helena	SW SW Section 11	24-49	After, 25' S. of opening
362	11/88	Helena	Squaw Gulch	16-51	Before, 15' W. of opening
363	8/13/90	Helena	Squaw Gulch	16-51	After, 40' W. of opening
364	11/88	Helena	Squaw Gulch	16-52	Before, 25' W. of opening
365	8/13/90	Helena	Squaw Gulch	16-52	After, 25' S. of opening
366	11/88	Helena	Squaw Gulch	16-53	Before, 20' N. of opening
367	8/13/90	Helena	Squaw Gulch	16-53	After, 15' N. of opening
368	6/20/90	Helena	Squaw Gulch	16-54	Before, 25' W. of opening
369	6/20/90	Helena	Squaw Gulch	16-54	During, 100' S pouring concrete for posts
370	7/2/90	Helena	Squaw Gulch	16-54	After, 50' S. of opening

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
371	6/19/90	Helena	Squaw Gulch	16-57/58	Before, 75' E. of opening
372	6/19/90	Helena	Squaw Gulch	16-57/58	During, 60' E., backfilling with dozer
373	7/2/90	Helena	Squaw Gulch	16-57	After, 40' E. of opening
374	7/2/90	Helena	Squaw Gulch	16-58	After, 30' E. of opening
375	7/88	Helena	Twilight	2-33	Before, 35' E. of opening
376	8/13/90	Helena	Twilight	2-55	After, 100' E. of opening
377	7/88	Helena	Twilight	2-56	Before, 30' E. of opening
378	8/13/90	Helena	Twilight	2-56	After, 100' S. of opening
379	8/13/90	Helena	Twilight	2-73	After, 30' N. of opening
380	10/12/89	Helena	Twilight	2-74	Preparing culvert bed, 40' N.
381	10/12/89	Helena	Twilight	2-74	After, 30' N. of opening
382	10/10/89	Helena	Bluebird	4-61	Before, 20' E. of opening
383	10/23/89	Helena	Bluebird	4-62	Before, 30' N. of opening
384	6/19/90				Equip. wash down between districts
385	6/19/90				Equip. wash down between districts
386	8/88	Scratchgravel	Ariadene	1-1	Before, 40' E. of opening
387	7/26/90	Scratchgravel	Ariadene	1-1	After, 25' E. of opening
388	8/88	Scratchgravel	Ariadene	1-2	Before, 20' E. of opening
389	7/26/90	Scratchgravel	Ariadene	1-2	After, 15' E. of opening
390	8/88	Scratchgravel	Ariadene	1-3	Before, 35' E. of opening
391	7/26/90	Scratchgravel	Ariadene	1-3	After, 30' E. of opening
392	1/89	Scratchgravel	Carbonate	2-4	Before, 25' N. of opening
393	7/2/90	Scratchgravel	Carbonate	2-4	During, installing cable net anchors 25' N
394	7/2/90	Scratchgravel	Carbonate	2-4	After, 20' N. of opening
395	1/89	Scratchgravel	Carbonate	2-5	Before, 30' E. of opening
396	6/19/90	Scratchgravel	Carbonate	2-5	After, 20' E. of opening
397	12/88	Scratchgravel	Eagle	3-6	Before, 20' W. of opening
398	6/4/90	Scratchgravel	Eagle	3-6	During, backfilling after blast, 25' W.
399	6/5/90	Scratchgravel	Eagle	3-8	After, 20' W. of opening
400	12/88	Scratchgravel	Eagle	3-7	Before 20' W. of opening
401	6/5/90	Scratchgravel	Eagle	3-7	After, 50' W. of opening
402	12/88	Scratchgravel	Eagle	3-8	Before, 10' W. of opening
403	6/5/90	Scratchgravel	Eagle	3-8	After, 30' W. of opening
404	6/4/90	Scratchgravel	Eagle	3-9	During, placing charges, 20' W.
405	6/5/90	Scratchgravel	Eagle	3-9	After, 20' W. of opening
406	12/88	Scratchgravel	Eagle	3-10	Before, 25' W. of opening

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
407	6/4/90	Scratchgravel	Eagle	3-12	During, backfilling with loader, 30' W.
408	6/6/90	Scratchgravel	Eagle	3-15	After, 40' W. of opening
409	6/4/90	Scratchgravel	Eagle	3-14	Before, 30' W. of opening
410	6/4/90	Scratchgravel	Eagle	3-14	During, backfilling with loader, 50' S.
411	6/5/90	Scratchgravel	Eagle	3-11	After, 30' W. of opening
412	12/88	Scratchgravel	Eagle	3-12	Before, 20' W. of opening
413	6/4/90	Scratchgravel	Eagle	3-12	During, compacting fill around culvert
414	12/88	Scratchgravel	Eagle	3-13	Before, 20' W. of opening
415	6/4/90	Scratchgravel	Eagle	3-14	During, backfilling around culvert, 30' W.
416	7/25/90	Scratchgravel	Eagle	3-12/13	After, 100' W. of openings
417	12/88	Scratchgravel	Eagle	3-14	Before, 25' W. of opening
418	6/4/90	Scratchgravel	Eagle	3-14	During, backfilling w/loader, 30' N.
419	6/5/90	Scratchgravel	Eagle	3-14	After, 50' W. of opening
420	12/88	Scratchgravel	Eagle	3-15	Before, 30' W. of opening
421	6/4/90	Scratchgravel	Eagle	3-15	During, installing culvert, 20' W.
422	7/25/90	Scratchgravel	Eagle	3-15	After, 40' N. of opening
423	12/88	Scratchgravel	Eagle	3-14	Before, 20' W. of opening
424	6/4/90	Scratchgravel	Eagle	3-14	During, hand backfilling culvert, 20' W.
425	7/25/90	Scratchgravel	Eagle	3-15	After, 30' W. of opening
426	6/4/90	Scratchgravel	Eagle	3-14	Before, 30' W. of opening
427	6/5/90	Scratchgravel	Eagle	3-17	After, 40' W. of opening
428	5/89	Scratchgravel	Franklin	18-45	Before, 25' N. of opening
429	6/6/90	Scratchgravel	Franklin	18-48	During, backfilling w/loader, 35' N.
430	6/6/90	Scratchgravel	Franklin	18-46	After, 50' N. of opening
431	5/89	Scratchgravel	Franklin	18-46	Before, 40' S. of opening
432	6/6/90	Scratchgravel	Franklin	18-45	During, backfilling w/loader, 30' W.
433	6/6/90	Scratchgravel	Franklin	18-48	After, 40' W. of opening
434	10/27/89	Scratchgravel	Franklin	18-47	Before, 25' N. of opening
435	10/27/89	Scratchgravel	Franklin	18-47	During, backfilling w/loader, 40' N.
436	10/25/89	Scratchgravel	Franklin	18-48	Before, 30' W. of opening
437	10/26/89	Scratchgravel	Franklin	18-48	After, 30' W. of opening
438	5/89	Scratchgravel	Franklin	18-49	Before, 25' W. of opening
439	6/6/90	Scratchgravel	Franklin	18-50	Before, 30' N. of opening

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
440	6/6/90	Scratchgravel	Franklin	18-50	During, backfilling with loader, 50' N.
441	6/6/90	Scratchgravel	Franklin	18-50	After, 60' N. of opening
442	12/20/88	Scratchgravel	Green Bird	4-18	Before, 20' N. of opening
443	12/19/88	Scratchgravel	Green Bird	4-19	Before, 40' N. of opening
444	12/88	Scratchgravel	Independent	12-20	Before, 10' W. of opening
445	5/31/90	Scratchgravel	Independent	12-20	Backfilling w/loader, 25' W.
446	5/31/90	Scratchgravel	Independent	12-20	After, 35' W. of opening
447	5/31/90	Scratchgravel	NE NW Section 35	5-21	Before, 30' S. of opening
448	5/31/90	Scratchgravel	NE NW Section 35	5-21	Backfillingw/dozer, 25' S.
449	5/31/90	Scratchgravel	NE NW Section 35	5-21	After, 50' S. of opening
450	12/8/88	Scratchgravel	NE SW Section 26	15-22	Before, 30' E. of opening
451	6/18/90	Scratchgravel	NE SW Section 26	15-22	After, 20' E. of opening
452	12/11/88	Scratchgravel	NE SW Section 26	15-23	Before, 50' E. of opening
453	7/2/90	Scratchgravel	NE SW Section 26	15-23	After, 30' E. of opening
454	12/13/88	Scratchgravel	NE SW Section 26	15-24	Before, 25' E. of opening
455	7/2/90	Scratchgravel	NE SW Section 26	15-24	After, 40' E. of opening
456	12/15/88	Scratchgravel	NE SW Section 26	15-25	Before, 20' N. of opening
457	7/26/90	Scratchgravel	NE SW Section 26	15-25	After, 30' N. of opening
458	12/5/88	Scratchgravel	NE SW Section 36	6-26	Before, 40' E. of opening
459	7/2/90	Scratchgravel	NE SW Section 36	6-26	During, installing culvert hatch, 40' E.
460	7/2/90	Scratchgravel	NE SW Section 36	6-26	After, 40' E. of opening
461	6/6/90	Scratchgravel	NW SW Section 25	16-27	Before, 50' E. of opening
462	6/6/90	Scratchgravel	NW SW Section 25	16-27	During, backfilling w/loader, 30' E.
463	6/6/90	Scratchgravel	NW SW Section 25	16-27	After, 30' E. of opening
464	5/31/90	Scratchgravel	SE NE Section 2	8-28	Before, 30' N. of opening
465	5/31/90	Scratchgravel	SE NE Section 2	8-28	During, backfilling with dozer, 40' N.
466	5/31/90	Scratchgravel	SE NE Section 2	8-28	After, 50' N. of opening
467	8/88	Scratchgravel	SE NE Section 35	7-29	Before, 40' S. of opening
468	6/18/90	Scratchgravel	SE NE Section 35	7-29	After, 20' S. of opening
469	8/88	Scratchgravel	SE NE Section 35	7-30	Before, 25' S. of opening
470	6/18/90	Scratchgravel	SE NE Section 35	7-30	After, 15' S. of opening
471	8/88	Scratchgravel	SE NE Section 35	7-31	Before, 20' S. of opening
472	5/31/90	Scratchgravel	SE NE Section 35	7-31	After, 20' N. of opening

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
494	8/88	Scratchgravel	SE NE Section 35	7-32	Before, 30' E. of opening
494	6/18/90	Scratchgravel	SE NE Section 35	7-32	During, installing adit door, 25' S.
479	6/18/90	Scratchgravel	SE NE Section 35	7-32	After, 25' S. of opening
476	8/88	Scratchgravel	SE NE Section 35	7-33	Before, 40' E. of opening
494	7/26/90	Scratchgravel	SE NE Section 35	7-33	After, 25' S. of opening
478	6/6/90	Scratchgravel	SE NE Section 35	7-34	Before, 20' S. of opening
479	6/6/90	Scratchgravel	SE NE Section 35	7-34	During, compact fill around culvert 20' E.
480	7/26/90	Scratchgravel	SE NE Section 35	7-34	After, 15' E. of opening
480	8/88	Scratchgravel	SE NE Section 35	7-51	Before, 20' E. of opening
482	7/26/90	Scratchgravel	SE NE Section 35	7-51	After, 30' E. of opening
483	8/88	Scratchgravel	SE NE Section 35	7-55	Before, 15' E. of opening
484	8/88	Scratchgravel	SE NE Section 35	7-56	Before, 35' S. of opening
485	5/31/90	Scratchgravel	SE SE Section 35	9-35	Before, 20' E. of opening
486	5/31/90	Scratchgravel	SE SE Section 35	9-35	During, backfilling w/dozer, 20' E.
487	5/31/90	Scratchgravel	SE SE Section 35	9-35	After, 40' E. of opening
488	12/88	Scratchgravel	SE SE Section 35	9-36	Before, 20' N. of opening
489	6/8/90	Scratchgravel	SE SE Section 35	9-36	After, 15' N. of opening
490	6/8/90	Scratchgravel	SE SE Section 35	9-37	Before, 25' E. of opening
491	7/24/90	Scratchgravel	SE SE Section 35	9-37	After, 25' N. of opening
492	5/30/90	Scratchgravel	SE SW Section 34	10-38	Before, 15' S. of opening
494	5/30/90	Scratchgravel	SE SW Section 34	10-38	During, backfilling with dozer, 50' N.
494	5/31/90	Scratchgravel	SE SW Section 34	10-38	After, 40' S. of opening
495	5/31/90	Scratchgravel	SE SW Section 34	10-38	Before, 15' E. of opening
476	5/30/90	Scratchgravel	SE SW Section 34	10-39	During, backfilling with dozer, 30' S.
494	5/31/90	Scratchgravel	SE SW Section 34	10-39	After, 50' S. of opening
494	5/30/90	Scratchgravel	SE SW Section 34	10-40	Before, 20' E. of opening
499	5/30/90	Scratchgravel	SE SW Section 34	10-40	During, backfilling with dozer, 30' E.
500	5/31/90	Scratchgravel	SE SW Section 34	10-40	After, 40' E. of opening
500	5/31/90	Scratchgravel	Sunshine	13-42	Before, 30' S. of opening
502	5/31/90	Scratchgravel	Sunshine	13-42	During, backfilling with dozer, 40' N.
503	5/31/90	Scratchgravel	Sunshine	13-42	After, 30' N. of opening
504	5/31/90	Scratchgravel	Swan	11-43	Before, 40' E. of opening
505	5/31/90	Scratchgravel	Swan	11-43	During, backfilling with dozer, 60' E.

Slide #	Date	Mining District	Site Name	Mine Opening #	Sequence, Vantage Point & Description
506	5/31/90	Scratchgravel	Swan	11-43	After, 60' E. of opening
507	6/5/90	Scratchgravel	Tavo	14-44	Before, 30' S. of opening
508	6/5/90	Scratchgravel	Tavo	14-44	During, installing grate, 40'N
509	6/14/90	Scratchgravel	Tavo	14-44	After, 30' S. of opening
510	6/3/90	Scratchgravel	Lovely	19-52	Before, 20' E. of opening
511	7/25/90	Scratchgravel	Lovely	19-52	During, backfilling with dozer, 60' E.
512	7/25/90	Scratchgravel	Lovely	19-52	After, 25' E. of opening
513	6/3/90	Scratchgravel	Babcock	20-53	Before, 20' N. of opening
514	7/25/90	Scratchgravel	Babcock	20-53	During, backfilling w/dozer, 30' E.
515	7/25/90	Scratchgravel	Babcock	20-53	After, 40' E. of opening
516	7/26/90	Scratchgravel	Pearson	21-54	Before, 20' E. of opening
517	7/26/90	Scratchgravel	Pearson	21-54	After, 30' E. of opening
518	7/31/90				Loading grates for transfer to DSL yard
519	8/1/90				Unloading grates at DSL yard
520	8/9/90	Blue Eyed Nellie	Bonita	20-50	Before, 20' N. of opening
521	8/10/90	Blue Eyed Nellie	Bonita	20-50	Transporting grates, 25' W.
522	8/10/90	Blue Eyed Nellie	Bonita	20-50	After, 40' W. of opening
523	8/9/90	Blue Eyed Nellie	Boomerang	21-51	Before, 35' E. of opening
524	8/10/90	Blue Eyed Nellie	Boomerang	21-51	Installing grate, 35' N.
525	8/10/90	Blue Eyed Nellie	Boomerang	21-51	After, 40' W. of opening
526	8/7/90	Georgetown	Twilight	7-12	Before, 40' W. of opening
527	8/8/90	Georgetown	Twilight	7-12	Installing grate, 30' W. of opening
528	8/10/90	Georgetown	Twilight	7-12	After, 40' W. of opening
529	8/8/90	Georgetown	Bob Evans	8-13	Before, 30' N. of opening
530	8/10/90	Georgetown	Bob Evans	8-13	After, 40' W. of opening
531	8/6/90	Silver Lake	Daly Gulch	26-39	Backfilling w/loader, 30' W. of opening
532	8/6/90	Silver Lake	Daly Gulch	26-39	After, 35' W. of opening
533	8/6/90	Silver Lake	Daly Gulch	26-40	Backfilling w/loader, 20' W. of opening
534	8/6/90	Silver Lake	Daly Gulch	26-40	After, 40' S. of opening
535	8/6/90	Silver Lake	Daly Gulch	26-41	Backfilling w/loader, 25' W. of opening
536	8/6/90	Silver Lake	Daly Gulch	26-41	After, 60' W. of opening

